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GARDEN & HOME BUILDER

Beauty Translated into Terms of the Practicable, the Possible;
into Terms of your House, your Lawn, your Garden

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GARDEN & HOME BUILDER

March, 1928

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Outside the Livable House — The Garden Annual

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The most useful and desirable hardy shrub grown. Largely used for foundation planting. Succeeds almost as well on north side of house as in full sunshine. Can be used for hedges, grouping or mass effect. Well branched plants. 12 to 18 inches. **Special price. 4 for 50c 12 for $1.25 50 for $4.00.**

Japanese Iris Kaempferi

Finest of all the Iris family. Flowers 6 to 8 inches across, of many delicate shades. Perfectly hardy everywhere, form large clumps, bloom freely in June and July. We offer strong plants, grown from finest imported seed. Should produce many beautiful varieties. Usual price is 25 to 40 cents each. **Our special price. 3 roots 25c, 7 for 50c**

7 Popular Hardy Perennials

Order either in Seeds per pkt. or 1 year Roots

		Seed Pkt.	Roots
Aquilegia	**Columbine** long spurred Hybrid varieties in choice mixed colors.	Pkt. 15c	15c 3 for 40c
Burbanks	**Shasta Daisy** Single white flowers 3 to 4 inches across, on long stems.	Pkt. 10c	15c 3 for 40c
Delphinum	**Belladonna** popular tall spikes delicate sky-blue. Very desirable.	Pkt. 15c	15c 3 for 40c
Gaillardia	**Grandiflora.** Very desirable. Large single flowers. Bloom all summer.	Pkt. 10c	20c 3 for 50c
Dbl. Hollyhocks	Five colors, all perfectly double white, pink, salmon, yellow and crimson. Seed mixed colors.	Pkt. 10c	5 for 50c
Sweet Peas	**Lathyrus,** hardy, everlasting varieties. 3 colors, white, pink, red.	Pkt. 10c	3 for 35c
Baby's Breath	**Hardy Gypsophila** immense panicles of fine, white gauze-like flowers.	Pkt. 10c	20c 3 50c
Seeds	Set of 7 pkts. value 80 cts. Set of 14 plants (5 Hollyhock, 3 Sweet Peas) value $1.70	7 for 50c	14 for 1.35

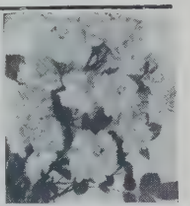
Perkins Climbing Roses

The most popular and desirable of all climbing roses.

Dorothy Perkins Double clear light pink in large clusters 30 cts.

Crimson Perkins Better in every way than Crimson Rambler 30 cts.

The two for only 50c.



Five Popular Annuals

Aster	**The Beauty** Among BEST Asters for cutting with long stems and many pleasing colors. Pkt. 15c
Antirrhinum	**Giant Snapdragon.** This class comprises the largest, finest variety and color. Pkt. 15c
Petunia	**Giants of California** Wonderful flowers 3 to 4 in. across. Frilled petals. Nothing finer. Pkt. 15c
Sweet Peas	**"Butterfly"** Spencer strain. Orchid flowering type. Many colors mixed. Pkt. 10c oz 25c
Zinnia	**Giant Dahlia Type** Generally considered the best. Many Colors Mixed. Pkt. 15c.

Set of 5 Pkts. value 70c for only 50c.

These are the beautiful Tuberous Rooted Begonias

Tuberous Rooted Begonia Bulbs

Unquestionably the most beautiful and satisfactory of all summer-flowering bulbous plants. Ease of culture, size and abundance of flowers and wonderful range of exquisite colors, white, yellow, orange red, rose, crimson, etc., blooming continually from June to October.

Bulbs will keep for years. As easily kept over winter as Potatoes. One lady writes, "I still have bulbs purchased from you ten years ago." Detailed cultural instructions sent with each order. Last year we sold fifty thousand bulbs at 25 to 40 cents each.

Price 4 Bulbs, 4 colors 2 single, 2 double **75 cts.** 6 single, 6 colors, 90 cts. 6 double, 6 colors, 90 cts.

Siberian (Oriental) Iris

Yale Blue. By many considered the most desirable of all Iris, blooming in June just after the German Flag Iris. Forms large clumps each year furnishing an abundance of flowers on long stems. Easy to grow, once planted will take care of itself. 20 cents. Three for 50 cents.

Free Offer One strong root given free with each cash order of $1 or more.

Use this Order Blank

THE TEMPLIN-BRADLEY CO.

5748 Detroit Ave. CLEVELAND, O.

Enclosed find $_____ Please deliver the following.

	Double Pink Almond	1 Plant 45c 3 Plants $1.25	
	Chinese Regal Lily	1 Bulb 25c 5 Bulbs $1.00	
	Spirea Vane Houtte	4 Plants only 50c 12 for $1.25, 50 for $4.00	
	Japanese Iris	3 Roots for 25c 7 Roots for 50c	
	7 Hardy Perennials	7 Pkts. value 80c for only 50c.	
	7 Hardy Perennials	Set of 14 Roots value $1.70 for $1.35.	
	5 Popular Annuals	5 Varieties 1 Pkt. each value 70c for 50c.	
	Perkins Roses	Each variety 30c the two for 50c	
	Begonia Bulbs	2 sgl. 2 dbl. 4 Colors 75c. 6 sgl. or 6 dbl. 6 Colors 90c. 12 Bulbs, 6 Single, 6 Double, No Two Alike $1.75.	
	Siberian Iris Free	with cash order for $1.00 or more.	

NAME TOTAL VALUE

STREET OR RFD

P. O. STATE

"Exclusive with Schling!"

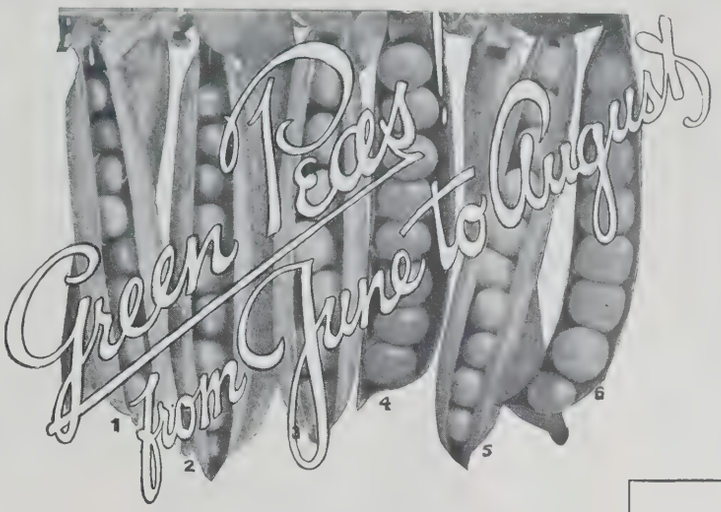
Up-to-the-minute Novelties and Recent Introductions of Proved Merit to Make New Friends for Schling Seeds and Give Pleasure to Old Ones

Do YOU Know this Secret?

Green Peas, and plenty of them, from June to August—if you follow these simple directions.

Plant this collection of 6 choice varieties *all at once* this Spring, just as soon as the frost is out of the ground—and they will mature in the order named—producing a steady procession of big, mouth-watering crops from about June 20th till late in August.

The reason for this is evident. Peas must develop their roots in cool weather and so are able to supply sufficient moisture to leaf, flower and pod as they rapidly multiply under the summer sun. On the other hand late planted peas are almost always a disappointment, as every experienced gardener knows.



Offer R
Schling's "Long Season" Pea Collection

1. ***Schling's Pedigree Extra-Early,*** 2½ feet. The earliest Pea grown; large, well-filled pods.
2. ***Gradus or Prosperity,*** 3 feet. An early fine wrinkled Pea of delicious flavor.
3. ***Sutton's Excelsior,*** 1½ feet. The most productive dwarf medium-early wrinkled Pea; very sweet.
4. ***Dwarf Champion,*** 2½ feet. An enormous cropper. Broad pods, very sweet.
5. ***Improved Telephone,*** 5 feet. Enormous pods, filled with Peas of the finest quality.
6. ***Heroine,*** 4 feet. Pods are large, deep green, somewhat curved; tender Peas of finest quality.

R1—½ lb. each of all 6 varieties, 3 lbs. in all..**$1.75**
R2—1 lb. each of all 6 varieties, 6 lbs. in all..**2.75**
R3—2 lbs. each of all 6 varieties, 12 lbs. in all..**5.00**

For once—all the green Peas you want; buy this collection. Delivered free within 300 miles. *Beyond, add 5c. per lb. for postage.*

Offer U
100 Glorious Gladioli $4.00

Choicest Mixture—including all the latest and most beautiful varieties such as the lovely Primulinus or Orchid Gladioli, running a gamut of subtle pastel shades from ivory yellow to an iridescent bronze such as mark the finest nasturtium collections. Start planting April 25th and every 3 weeks thereafter to July 15th and enjoy a long processional of beautiful bloom.

A $7.00 Value for only **$4.00** or 50 Bulbs for **$2.25**

Offer S—Novelties of 1928
A $10.30 Value for $9.00

Absolutely New and Delightful Surprises for Your Flower Garden

WALLFLOWER
Double Early Wonder

***Wallflower*—Double Early Wonder**—Equals in size and beauty the finest English Wallflower; blooms the first year from seed, within five months from sowing; superb spikes of primrose, bronze, yellow, brown and purple. Wonderful fragrance.
Pkt. **75c**; 5 pkts. for **$3.00**

***Leucanthemum Maximum*—Dwarf Avalanche**—A showy, new dwarf Marguerite, for the border or cutting; does not require staking.
Pkt. **75c**; 5 pkts. for **$3.00**

***New Sweet Pea*—Sunkist**—Magnificent picotee edged, clearly defined on rich, creamy ground. Of gigantic size.
Pkt. **35c**; 3 pkts. for **$1.00**

***New Giant Pansy*—Majestic Splendor**—Truly a masterly achievement in pansies. This new strain excels not only in size and vigor, but presents an entirely new color range in rarest combinations of pink, salmon, brown, bronze, silver gray, copper, velvet, wine red, etc.
Pkt. **$1.00**; 6 pkts. for **$5.00**; 12 pkts. for **$9.00**

***Papaver Nudicaule Roseum*—Coonara Pink**—An exceptionally lovely new color in Iceland Poppies, a warm rose-pink, faintly and delicately suffused with salmon-pink. Sown in March or April will bloom the first year....Pkt. **75c**; 5 pkts. for **$3.00**

***New Double Feathered Poppy*—Luminous Dark Scarlet on Velvet Ground**—Puffed and fluffy like a ball of feathers, flowers of gigantic size, often 7½ in. across. Sow in open ground.....Pkt. **50c**; 5 pkts. for **$2.00**

New Double Hybrid Shirley Poppies—A remarkable improvement, with blooms of greater size and substance and many new and varied color tints.....Pkt. **35c**; 3 pkts. for **$1.00**

***Mignon Dahlia*—Firebrand**—Scarlet-flame, slightly suffused with salmon-orange, single flowers fully 5 inches across of wiry, cane stems, the whole plant not exceeding 2 feet in height.
Pkt. **$1.00**; 6 pkts. for **$5.00**

Gaillardia Portola Hybrida—A superb new strain of Gaillardia, flowers very large in shades of bronzy red with the golden tipped petalage of the well known Portola variety. Splendid cut flower.....Pkt. **50c**; 5 Pkts. for **$2.00**

Verbena Hybrida Grandiflora Etna—Large trusses of intense Paul Crampbell Geranium red with a small creamy yellow eye.....Pkt. **35c**; 3 pkts. for **$1.00**

***Campanula Fragilis*—Heavenly Blue**—A beautiful campanula, 1 ft. high, whose lower branches have a drooping habit, valuable for pot culture, hanging baskets or border. At all times practically covered with blossoms, about an inch across and of a lovely celestial blue color.....Pkt. **50c**; 5 pkts. for **$2.00**

Meconopsis Baileiana—A beautiful, blue perennial poppy brought over from Thibet by Captain Kingdon Ward of Great Britain. Stands 2 to 3 feet high, with broad, seagreen leaves, bearing large four-petalled blooms of a glorious sky-blue with golden yellow anthers. Received First Class Certificate and A. of M. R. H. S. England. Perfectly hardy. Pkt. **75c**; 5 pkts. for **$3.00**

***Ostrich Plume Aster*—Coppery Brown**—A remarkable new color in asters, at first a silky, coppery brown and changing later to a vermilion-brown. Ostrich type blooms with twisted and often fantastically interlaced petals. A novelty of highest value.....Pkt. **75c**; 5 pkts. for **$3.00**

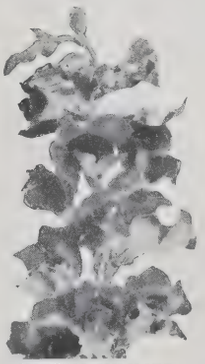
***New Hollyhock*—Double Imperator**—This splendid new hollyhock arrests the attention of the beholder with its large cup-shaped flowers, 5½ to 6½ inches across, the outer edges are elegantly frilled and deeply fringed and in the center appears a very finely fringed double rosette about 2 inches across, the whole suggesting a crested Begonia on a giant scale. The colorings include many charming combinations of different tints of salmon, cream, rose and yellow, etc.....Pkt. **50c**; 5 pkts. for **$2.00**

Oenothera Clutei—This handsome new biennial Primrose from Arizona does not close its petals during the day as is the case of this genus. Stout central stalk some 4 feet in height bears in great profusion large flowers of a soft yellow hue. Especially effective in large masses.....Pkt. **50c**; 5 pkts. for **$2.00**

***Primula*—Florindae**—A mighty primrose growing to a height of 3 to 4 feet and bearing from the end of June to late in August, 60 to 80 fragrant, bright yellow pendant flowers in umbels at the top of its stems. Another discovery of Capt. Ward of Great Britain and which we believe will be quite as hardy in this country as in its native Asia.....Pkt. **$1.00**; 6 pkts. for **$5.00**

Offer T—Schling's New American Snapdragons
A $14.00 Value for $10.00

A New Race of Giant Snapdragons! Rivals the gladiolus in height and vigor, 14 varieties in 14 exquisite and distinct colors. So far superior to all other Snapdragons—there is no comparison. Don't miss them.



INDIAN SUMMER

Indian Summer—Newest and loveliest of this royal race. Tall flower spikes of a marvelous, velvety copper-red, hitherto unknown in Snapdragons. Indescribably beautiful and now famous from the Yukon to the Gulf....Pkt. **$1.00**

Golden West—A rich deep golden-yellow with rosy-lilac throat.....Pkt. **$1.00**

Pathfinder—Tender rose-pink, with yellow lip and pure white throat.....Pkt. **$1.00**

Yosemite—A splendid lilac-purple.....Pkt. **$1.00**

Navajo—Pure delicate canary-yellow self.....Pkt. **$1.00**

Seminole—Rosy lilac, with silky white throat.....Pkt. **$1.00**

Wyoming—Deep carmine-pink, with golden yellow lip. Pkt. **$1.00**

Narragansett—Delicate rosy lilac overlaid with a silvery lustre; rich golden yellow at center.....Pkt. **$1.00**

Tenega—(Sunset) Golden-yellow (autumn gold) changing toward the center to a bright terra cotta.....Pkt. **$1.00**

Shasta—Lovely pure white, with a fine yellow throat. Pkt. **$1.00**

Massasoit—Brownish orange, tinged with red.....Pkt. **$1.00**

Miami—Delightful, tender rose color.....Pkt. **$1.00**

and these brand new varieties

Pontiac—A glorions, uniform, deep velvety maroon-purple. Pkt. **$1.00**

Somerset—Apricot, flushed with salmon—very unusual and beautiful!.....Pkt. **$1.00**

Offer V—EXCLUSIVE!
Six Beautiful Rarities for the Connoisseur
A $2.75 Value for $2.00

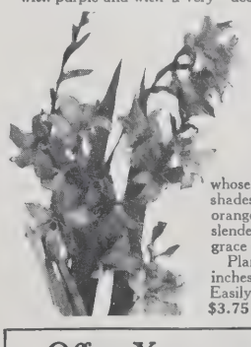
Chinese Forget-Me-Not, Cynoglossum—2 ft. sprays of lovely sky-blue Forget-Me-Not like blue flowers; blooms all summer.....Pkt. **50c**

Schling's Imperial Giant Sweet Sultans—With flowers fully 3 inches across on long stems in lovely shades of rose, flesh, lavender.....Pkt. **25c**

Schling's Salvia Farinacea—With its lovely spikes of blue; blooms right up to frost.....Pkt. **25c**

Schling's Candelabra Salpiglossis—A sensational new type, tall as hollyhocks with large clusters of beautifully marked flowers branching from the central stems.....Pkt. **25c**

Schling's New Gigantic Deep Throated Single Fringed Petunia, Lilac Queen—7 in. across, heavily frilled. A lovely lavender-blue beautifully veined with purple and with a very deep, velvety throat. Most charming petunia ever introduced
Pkt. **$1.00**



New Dahlia-Zinnia Exquisite—a glorious Tyrian-rose.....Pkt. **50c**

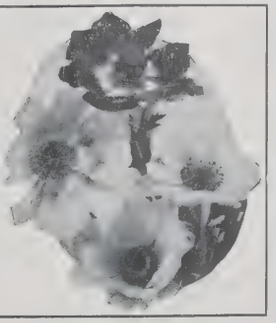
Offer W
Montbretias

whose flower clusters, in exquisite pastel shades ranging from pale yellow to deep orange hang like golden stars on long, slender, wiry stems, have all the airy grace of the orchid Odontoglossum.

Plant the bulbs in April and May, 3 inches deep and enjoy them all season. Easily grown. 25 Bulbs **$2.00**; 50 for **$3.75**; 100 for **$7.00.**

Offer X
Giant French Poppy Anemones

Marvelous poppy-like flowers in wonderful color combinations. Blues with white bases; Pink with blue bases, cream and apricot shades in endless profusion. Truly a gem of the first water! Plant bulbs in May, 3 inches deep. 25 Bulbs for **$3.00**; 50 for **$5.50**; 100 for **$10.00**



N. B.—Any of the above varieties can be bought separately as priced

Many other entrancing flower varieties fully described in our "Book for Garden Lovers"—25c. the copy—Free with first order

Enables the amateur to sow all fine seeds, such as in Offers S and T above, with the skill of the professional. Saves time, labor and seeds.....**$1.00**

Madison Avenue and 58th St. **Schling's Seeds** New York City

Max Schling Seedsmen, Inc.

I enclose $.....Please send me Offer R ☐, S ☐, T ☐, U ☐, V ☐, W ☐, X ☐, Sowrite ☐.....Boxes Seerite Labels ☐. Book for Garden Lovers ☐.

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Seerite Label

At last! A glass enclosed, truly weatherproof label that answers every requirement of Appearance, Legibility and Permanence. For seed beds, rose, rock and flower gardens, greenhouse and general outdoor use. Mailed postpaid, 8 in a box.....**$1.00**

GILLETT'S FERN AND FLOWER

Azaleas---
The Pride of America's Woodlands

ONE crisp May morning we arrive at our nursery, to behold that the color carnival has started. The enchanting *Azalea calendulacea* has opened it with a riot of orange-yellow and flame red bouquets, through many intermediate shades. A little beyond we get a "peep" at patches of rosy pink and whitish blossoms—*Azalea canescens* or Piedmont Azalea just joining the greatest Spring show our nursery affords. Its fragrance is rivaled only by *Azalea viscosa*, our Swamp Azalea which closes the season of Azalea bloom with heavy loads of pure white flowers.

Summary and Special Offer

Azalea calendulacea—*Flame Azalea.* Brilliant orange, yellow and flame flowers from early May until middle of June.

Azalea canescens—*Piedmont Azalea.* Rosy pink flowers of great beauty and most delightful fragrance. May flowering.

Azalea viscosa—*Swamp Azalea.* Great masses of exquisitely fragrant white flowers late in June.

We will furnish one each of above three woodland gems, well-shaped plants 12-18″ tall, dug with ball of earth and securely burlapped for $6.00; two each for $11.00; three each for $15.00.

Kalmia or Mountain Laurel
The bright-eyed Maiden of our Woods

When the sun shines into the wheel-shaped rosy and white Kalmia flowers, they almost twinkle their delight at contributing so much beauty to America's grounds and gardens.

Special Anniversary Offer:---**25 fine plants,** all balled and burlapped, in the following sizes: **Ten 12-15″ clumps, ten 15-18″ clumps; five 18-24″ clumps all carefully packed**—no extra charge—**for $35.00.**

Rhododendrons---
America's Greatest Laurel

Carolina Rhododendron

Very beautiful in early May when it bears large clusters of rosy pink flowers in great profusion.

	Each	*10*
9-12 in. clumps	$2.00	$17.50
12-15 in. clumps	2.75	25.00
15-18 in. clumps	3.25	30.00

Rhododendron maximum

Grows to magnificent size, with massive foliage. Charming light pink flowers during June.

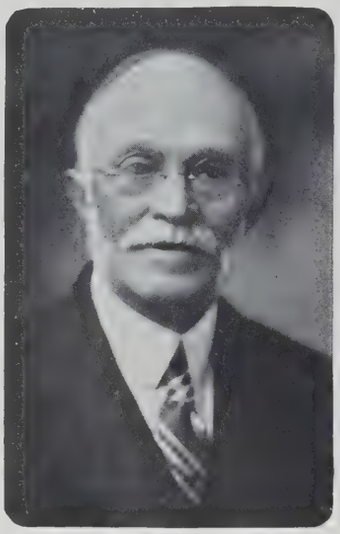
	Each	*10*
12-18 in. clumps	$1.25	$11.50
18-24 in. clumps	2.00	17.50
18-24 in. clumps, extra broad specimens	3.00	27.50

All baled and burlapped, properly boxed

GILLETT'S Fern and Flower Farm

3 Main Street **Southwick, Mass.**

Through Half a Century with a Happy Hobby



THE year 1928 sees the House of Edward Gillett enter upon its fiftieth year of usefulness and service to American gardeners. Fifty years of striving after an ideal and finding it in the work causes the founder, my father, to be a happy young man long after passing the proverbial "three score years and ten." These lines are dedicated to him, whose early efforts built the firm foundation upon which rests the present business.

FIFTY years ago, gardening in America was the pastime of the gentry of our countrysides. They nursed the old favorites which the old settlers had brought over, or which they or their parents had imported from the old country. The terms "old-fashioned" or "grandmother's garden" go back to those days. As the years rolled by, the country witnessed an invasion of bulb, seed, and plant merchants, chiefly from Europe, bringing to America's shores a multitude of garden materials more or less adapted to our climatic conditions. And all this time there thrived in our woods—at our back doors, so to say—a wealth of the native flora, overlooked and disregarded—largely for want of a champion. That champion was born on January 27, 1849.

Even as a boy he seemed to care more for Ox-eye Daisies than for exotic Orchids. Ferns held a greater fascination for him than Fuchsias. He came justly by his inherent love for flowers, having watched his mother's devotion to such as she cultivated in the garden of his childhood. And even at that early age he set out to prove that idealism and business acumen could go hand in hand, for such surplus seeds as his mother saved he sold to friends and neighbors.

When, after attending the local schools, he finally entered the Agricultural College at Amherst, Mass., it was only logical that he should specialize in Botany, Horticulture, and Agriculture. He finished at Amherst with the Class of 1874. Subsequently, returning to the haunts of his childhood, he spent a great deal of his time analyzing the native flora, much to the amusement of some neighbors who considered him rather eccentric. Little did they dream that this very characteristic should, in years to come, develop America's foremost Fern and Wild Flower Specialists, and the largest business of its kind in America.

The inspiration to capitalize on the accumulated knowledge in a commercial way came in the form of an order to collect some plants for a Pennsylvania nursery. This was in 1878. Seven years later the founder mailed his first catalogue, the limited edition of which was written entirely by hand. And it is a noteworthy fact that this first catalogue contained a great many wild flowers which since have become so scarce that we no longer offer them. One of the

A portion of a field of Azaleas and Rhododendrons

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FARM · SOUTHWICK, MASS.

A forest of Ferns, with every one a good specimen

sanest bits of advice the founder received early in his business career was that given him by the firm who sent him the first order. It was "to advertise." And advertise he did. For nearly fifty years he has done so uninterruptedly, and has been represented in the foremost horticultural publications with hardly a lapse.

In the early days the founder practically did all the collecting of ferns and wild flowers himself. As the years rolled by he gradually confined himself to growing some from seeds and letting others do the collecting. Plants were brought in by collectors from all sections of the country, and such as became readily acclimated became part of the stock of this nursery. He was really the pioneer in developing an interest in native plants, and like all pioneering, it proved hard work. But "keeping everlastingly at it" surely found its reward in due time. From a small beginning in the side yard of the original homestead through his first nursery, still known as Gillett's Corner, we come to the present nursery of sixty acres. It was a steady struggle but it led, ultimately, to success.

Some thirty-five years ago, the founder, during a trip to the South, became impressed with the beauty and possible value to the North of native Azaleas and Rhododendrons. He shipped some for experimental purposes and found them perfectly hardy and easily adaptable to Northern conditions. That marked the beginning of dealing in this type of native shrub material, all previous efforts having practically been confined to Ferns and native wild flowers. About fifteen years ago the shipping of Rhododendrons, Kalmias, Azaleas, etc., reached carload proportions. After proving the practicability of handling this sort of stock in this fashion, greater and greater quantities were collected, to be converted into specimen stock through judicious pruning and intensive cultivation. Today almost fifty acres are devoted entirely to these natives, Azaleas, and Laurels, the total number of plants amounting to nearly a quarter of a million.

But this rather recent development did not cause him to go back on his first friends, the faithful Ferns. They still form a most impressive item in yearly sales, over 100,000 being handled every year, representing forty-five varieties of distinct usefulness for various situations. Native Orchids, too, and some of our loveliest deciduous native shrubs are handled in generous quantities, all of which has helped the business to grow to gratifying proportions.

Fifty years of growing the best plants which a fertile soil, clean cultivation, and a rigorous climate enable us to produce, have also taught us the necessity of delivering this plant material in such shape as to be a credit to all concerned. We employ special methods of digging plants with generous balls of earth and balling them carefully in burlap. Plants thus prepared and conscientiously packed arrive most anywhere in perfect shape. This is unquestionably one of the factors that has helped us to have and to hold customers whom a quarter of a century of satisfactory service had converted into friends. With this goes the assurance that the founder's ideals will continue to govern the attitude of the writer towards plants, friends, and business.

KENNETH E. GILLETT

Southwick, Mass.

Ferns That Bring the Woods' Grace to Every Place

Ferns lend a "woodsy" atmosphere such as cannot be created by any other plants. Their opening fronds unroll vistas of virgin forests, their nodding leaves lend restful shade to the dwarfer flowers beneath. Selecting the proper kinds, you may grow hardy ferns most anywhere. Here are a few collections for specific soils and situations:—

Collection No. 2

For dry, shady places. Plant them where flowers as a rule do not thrive.

10 Aspidium acrostichoides, 1 foot.
10 Aspidium marginale, 1 to 2 feet.
10 Dicksonia punctilobula, 1 to 2 feet.
5 Osmunda Claytoniana, 2 to 3 feet.

35 Strong Clumps in all for $5

Collection No. 3

Fine for moist, shady places; also for large rockery.

5 Adiantum pedatum, 1 foot
5 Aspidium cristatum, 1 foot.
5 Aspidium acrostichoides, 1 foot.
5 Aspidium spinulosum, 1 to 1½ feet.
5 Aspidium marginale, 1 to 2 feet.
5 Asplenium thelypteroides, 2 to 3 feet.
5 Asplenium Filix-foemina, 2 to 3 feet.
5 Phegopteris hexagonoptera, 1 foot.
5 Woodwardia virginica, 2 feet.

45 Strong Clumps in all for $6

For many other ferns for specific situations please consult page 11 of our catalog for which please write.

What's Lovelier than Our Native Hardy Orchids?

The Cypripediums, also called Lady's Slipper or Mocassin flowers are the most exotic children of our woods.
C. acaule—The Red Lady Slipper, bears showy rosy purple flowers.
C. pubescens—Bears pale yellow flowers during May-June.
C. spectabile—The showiest of the tribe, with large, rosy purple or rosy white flowers.

Special Anniversary Offer: Three each of above fine hardy orchids (1 to 2 crown plants) **9 in all, postpaid for $2.00.**

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You'll be delighted with a little book dedicated entirely to the wild children of our flora. We will supply

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These prefer moist, shady situation

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We grow hundreds of equally interesting plants and shrubs to which our Fiftieth Anniversary Catalog proves an index. If Gillett ideals and methods of merchandising as presented in these 2 pages facing appeal to you, please afford our catalogue an opportunity to visit you. Free, of course, and please mention G. & H. B.

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Let's face facts squarely—you cannot have one without the other. Unblemished beauty is worth working for and you *assure* yourself a perfect crop of perfect Roses if you spray diligently with

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Keeps Roses Clean

Yes, and a multitude of other flowers and plants are benefited by this remarkable remedy, termed "the greatest allround garden cleanser extant." It kills all leaf-chewing insects such as Rose-bugs, Blister Beetles, etc.; it kills the insidious sap-sucking Aphis or Plant Lice; last, not least, it defends the plants against blight, mildew and other fungous diseases spread by spores. Truly, Melrosine proves a blessing to the garden, and the gardener using it persistently and consistently will be blessed with finer fruits and flowers.

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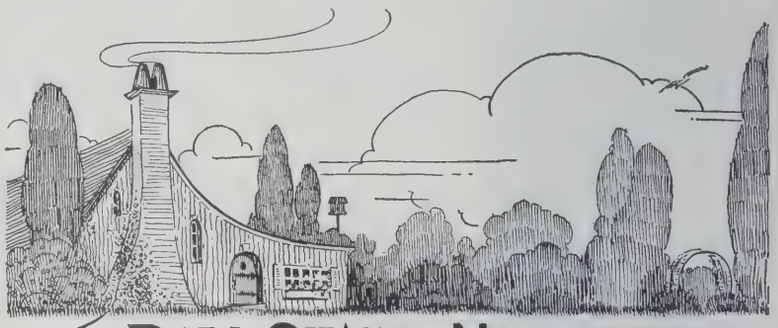
Our new handsome illustrated handbook we will gladly send on request. It contains many valuable suggestions and lists all worthwhile varieties, of trees, hardy plants, flowering shrubs, perennials, etc. Write us now.



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"Last spring we used Semesan on all our infected gladiolus bulbs. After two seasons' use we believe it to be a sure cure for scab and hard rot of gladiolus bulbs."

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For flower and vegetable seeds a simple *dust or liquid* treatment with Semesan destroys diseases on the seed before it has a chance to damage tender seedlings. By creating an antiseptic zone of protection around the plant in the soil, Semesan removes the handicap of disease. A tiny pinch of Semesan will effectively disinfect the average packet of flower or vegetable seeds. The 50c can you buy from your seed dealer contains enough Semesan to protect thirty pounds of flower or vegetable seeds!

Spraying with Semesan will prevent or control the ravages of such diseases as brown canker, black spot, and mildew which mar the beauty of your rose garden. Use it this season.

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Quick germination from early plantings, good stands, vigorous plants and better quality ears result from the simple operation of dusting sweet corn seed with Semesan Jr. before planting.

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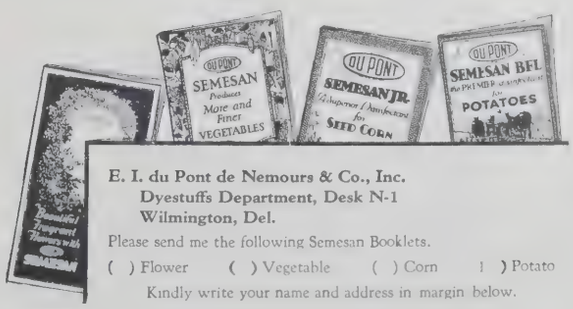

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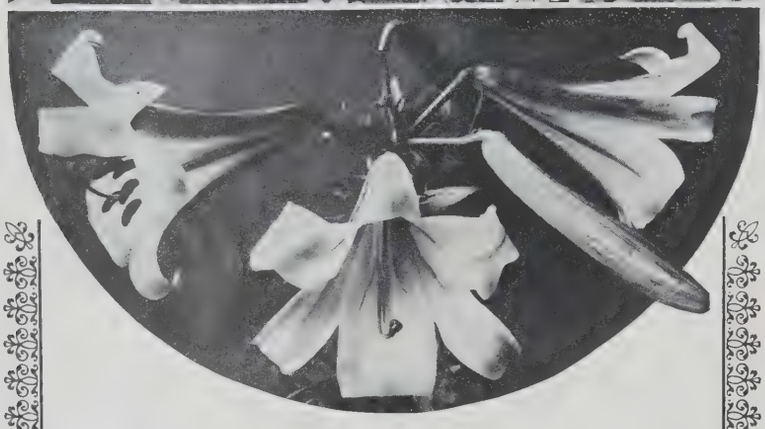

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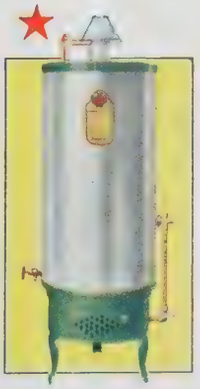

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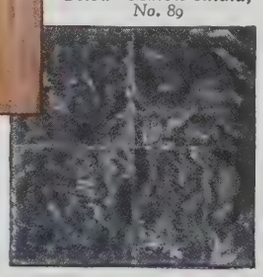
Mrs. Brown's practical suggestions for planning your house beautiful are illustrated in full, rich colors. Her "Decorator's Data Sheet" will help you plan your decoration step by step. This 32-page book also brings you an offer of the author's free, personal service. Just enclose 10 cents in stamps with your request, to cover mailing costs. (Canada, 20c.) Address Armstrong Cork Company, Linoleum Division, 903 Pine Street, Lancaster, Pennsylvania.



Left—Inset Jaspé No. J11
Below—Marble Inlaid, No. 89

Look for the CIRCLE A *trade-mark on the burlap back*

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Here is Rare Good News

EVERY known worthwhile rock plant, that will grow satisfactorily for you, is now to be found in our collection. Rugged, field-grown, 2 or 3 years old ready for immediate results.

Plants we stand back of, and packed so they will arrive in perfect condition.

We will without charge, cheerfully replace any that do not.

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Two things we started out to do several years ago. One was to have the finest, most complete collection of plants growable.

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Rock gardens, while now quite the fashion; always will be one of the most interesting forms of gardening. They have an intimacy, an almost mystic interest entirely distinct from other garden joys. In fact you can have a rock garden when you can't have the other kind. It's surprising what you can do in a small space. Send for our catalog. It's better than ever and offers a splendid collection of rock plants.

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Named in honor of the Florists Telegraph Delivery. Large exhibition *decorative*, a sport of Trentonian and manifesting the latter's good habit of growth. Tall and free flowering. Color, a rich Tyrian rose. Flowers held well above foliage on long, rigid stems, exceptionally free flowering. Dark green foliage, tall habit of growth.

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Flowering Shrubs will make your home more beautiful for many months of the year and for years to come. Whether your home be large or small, our "Glenwood Selection" will provide an attractive setting from early spring to late fall.

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It offers all the really outstanding novelties of the year, including GAIETY which was awarded the Silver Medal at last Fall's shows as the best new Rose of the season.

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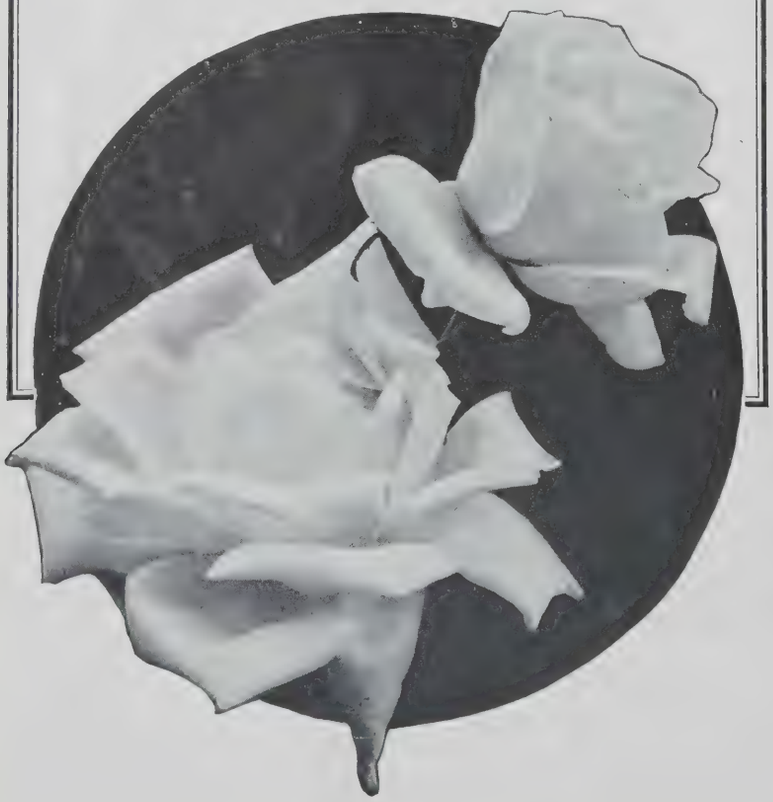
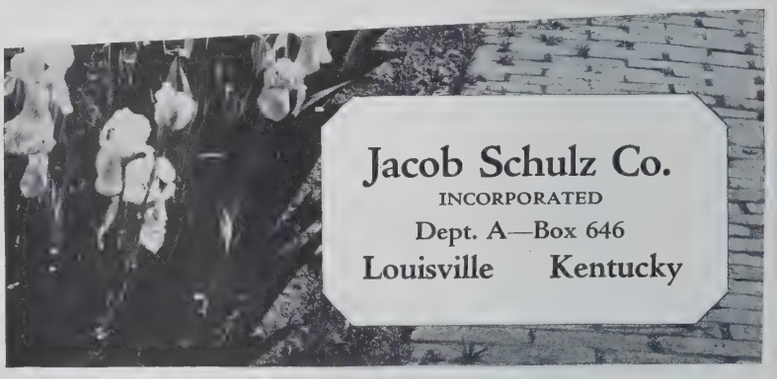


March winds blow winter away and bring vague uneasiness—a restless urge—spring fever. The best panacea we know is garden planning. Sit down in a cozy corner and plant a "White Paper" garden. But first, send for a copy of the new "Kentucky Bred" Garden Book—new, complete, fascinating. *Write today.*



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"Judge Shinn"

Kemp's Wonder Dahlias & Glads

Our 1928 catalogue lists practically all the great new introductions, including such new wonders as, Jane Cowl, My Maryland, Waldheim-Sunshine, Kemp's Violet Wonder, Fort Monmouth, Watchung Sunrise, Grace Jocelyn, Martha Kemp, Golden Dream, Fire Chief, Judge Shinn and many other old and new varieties no less wonderful in their class. If you desire the largest list of the finest new exhibition dahlias you will cherish this free catalogue,

Wonder Gladiolus

In addition to a number of new varieties of my own origination for 1928, you will be interested in reading the descriptions of my earlier introductions such as, "Jubilee" (the largest and best lavender to date),"Ruffolace" the one and only ruffled and lacinated Gladiolus, "Orange Wonder," "Oraflame," and many other superb prize-winning varieties. All fully described, some illustrated, in my 1928 catalogue. A postal will bring your free copy.

"Jubilee"

J. A. KEMP, Glad-Dahlia Specialist

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N. B.—If in search of the kind of Dahlia and Gladiolus seed that have produced Kemp's Wonder introductions, I have a limited supply.

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Dozen Hybrid TEA ROSES

An ideal selection for those not familiar with the relative merit of the hundreds of varieties offered in the Dreer Garden Book. All do well wherever Roses grow, are free flowering, beautiful in color and afford ample cut flowers for the home. This is, perhaps, the Greatest "Dreer Dozen" we have ever offered:—

Duchess of Wellington. Saffron-yellow stained crimson.
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Radiance. Carmine-pink with salmon and yellow shadings.
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Souvenir de Claudius Pernet. An unrivaled yellow garden rose.
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Any of above, strong, two-year-old, field-grown plants, **$1.00 each; $11.00 per doz.; $90.00 per 100. One each of the Dreer Dozen for $11.00.**

Special Rose Catalog

So great has become the interest in Roses that we have issued this special book covering every phase of the subject. It should enable anyone to grow Roses to perfection. Free, of course, whether you order Roses or not.

FREE:—
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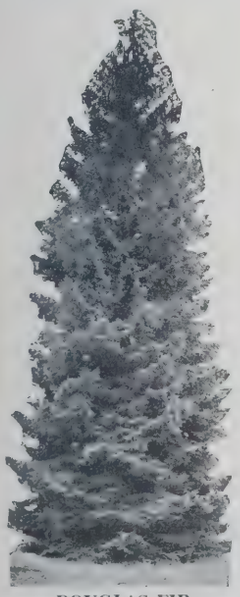
A 224-page book which offers the best garden materials the world affords, at prices within reach of all. It also tells how to get the most out of every article—Seeds, Bulbs or Plants. Get the benefit of almost a century's experience in the horticultural field by writing for the book today, mentioning this publication.

HENRY A. DREER, 1306 Spring Garden St., Philadelphia, Pa.

Large EVERGREENS *for Immediate Effect*



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A native Evergreen. Hardy and vigorous. Attractive through ut the year.

A few of our hardy Hemlocks, Firs, Pines or Spruces will save you 10 to 20 years of waiting. Every tree is dug with a large root ball of earth which is held compact with a tight binding of burlap so that the roots cannot be disturbed.

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is our leading specialty. We have to our credit many of the most beautiful places in Westchester County aud elsewhere. These afford you plenty of references as to our ability to care for your horticultural problems.

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Please Come To See Us When the Daffodils Bloom

The Juniors

So this is your advance invitation from the Junior Members of the firm (see above) to help us celebrate the arrival of the Harbingers of Spring, the airily graceful Daffodils. Our regular customers will receive definite invitations in due time. Those not on our mailing list will honor us by asking for our catalog today.

American Grown Daffodils

A Recognized National Asset

We feel that we have solved the problem of growing in America as fine bulbs as we previously imported from Holland. We found ideal soil and climatic conditions on Long Island where we now grow Daffodils by the millions. By carefully studying changed conditions and by perfecting special methods of planting, cultivating, curing and harvesting the bulbs we are still able to offer

"Bulbs In a Class All Their Own"

Zandbergen's American-grown Narcissus Bulbs will do as well or better than any previously imported from the other side. The various varieties are of the same blooming season, the flowers are as large or larger and are of as lasting quality. Bulbs are ready for delivery soon or even sooner than the bulbs that came from Holland and even now do not cost much more than did the imported bulbs.

Improved Catalog Free

For the first time this year we are introducing some American ideas into our book. Through truthful descriptions and some (we trust) interesting illustrations, we endeavor to convey just what we are doing to produce the very finest in Dutch Bulbs, both in Holland and on Long Island. Mailed regularly to old customers. New readers will oblige us by asking for their copy—ready in early April.

ZANDBERGEN BROS., *"Tulipdom"*
Oyster Bay, Long Island, New York
Nurseries at Valkenburg, near Leiden, Holland and at Babylon, Long Island, New York

THE CLASSIFIED DIRECTORY

Readers are offered our assistance in finding Properties, Poultry, Dogs, Livestock, and Accessories. There will be no charge for this service. Write to C. Kircher, Manager, CLASSIFIED DIRECTORY, GARDEN & HOME BUILDER, 244 Madison Avenue, New York.

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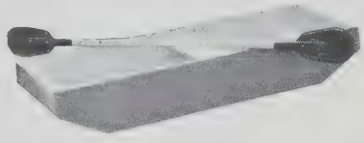
Dog kennel No. 1. Perfectly ventilated. Cedar walls and roof. Painted. Pine floor. Size 2½x4 feet. Price $20.

A revolving feed box, offers food and shelter to your feathered friends. Price $8, with 7-foot pole.



This tight little craft is carefully made of clear cedar, well painted. Easily carried on running board of auto. Size 2x6 ft. Price $15, with paddle.

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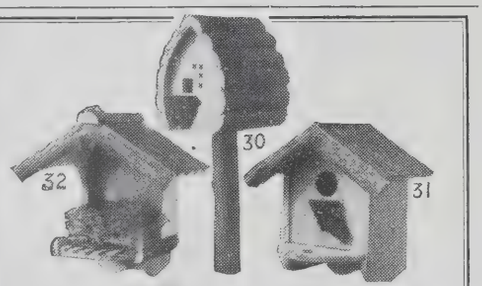

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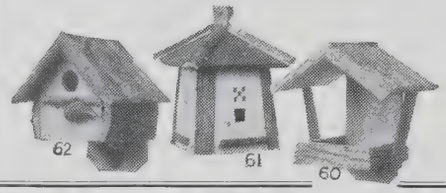

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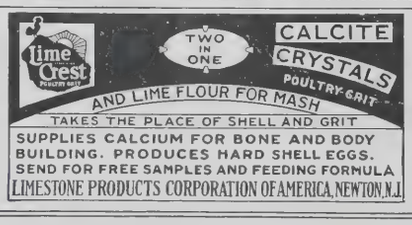
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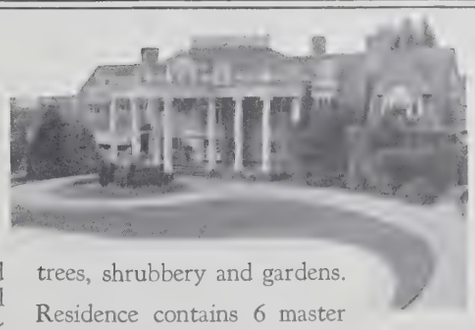

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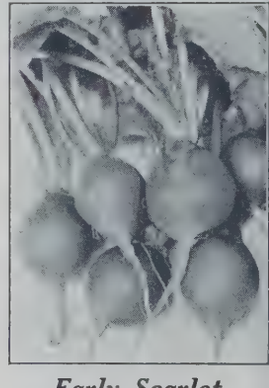
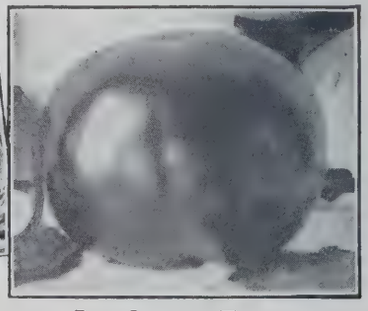


Early Scarlet Turnip Radish

Big Boston Lettuce



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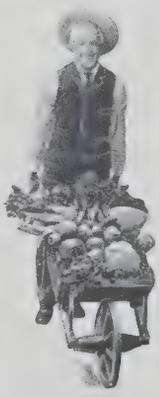

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GARDEN & HOME BUILDER

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VOLUME XLVII NUMBER I

Cover after an original by Frank Galsworthy

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Building Better Houses

Announcing an Award for Houses of Good Design and Construction that are Built to Sell

TO FOCUS attention upon and stimulate public interest in the better type of building, GARDEN & HOME BUILDER is now offering its Achievement Medal as a mark of recognition for houses which come up to standard.

Many people prefer to buy their homes already built, thus eliminating delay and pother. There is much to be said in favor of this point of view, particularly for busy folk who are not overly insistent upon individual expression. At any rate the fact remains that houses built to sell are shooting up in rapidly increasing quantity and that our present concern is to assure the purchaser his money's worth. Unhappily in this field of activity, as in others, unscrupulous speculation is rife, and up to date the prospective owner has nothing to safeguard him or assure him of a sound purchase. Fortunately, however, there are a number of legitimate participants in this great game of home building who are satisfied with a fair profit and sufficiently conscientious to do the job well; 'merchant builders' they are sometimes called in contradistinction to the cheap-souled speculator who is willing to 'gyp' the poor unsuspecting buyer to the limit.

Development companies and merchant builders throughout the country are invited to participate and make this contest a success. Two medals, one in silver and one in bronze, will be awarded to the two leading contestants in each of six groups of states, as listed on page 468 of our January issue.

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

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Duckham still leads with Superb Delphiniums

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Xerophyllum asphodeloides. Turkey's Beard. White flowers.
Yucca filamentosa. Common Yucca. White, bell-shaped flowers, in July and August.
Yucca flaccida. Weak-leaf Yucca. White flowers in early spring.
Dicentra eximia. Fringed Bleeding-Heart. Deep rose flowers.
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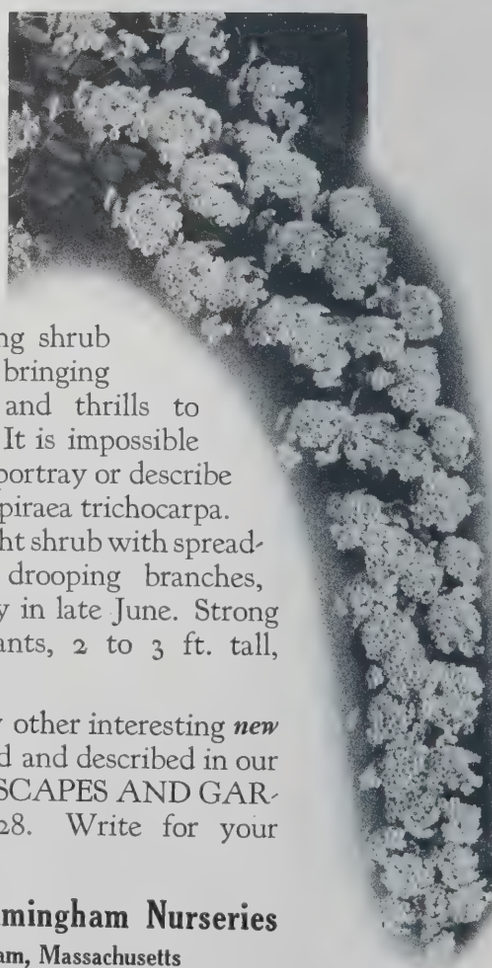
Spiraea Trichocarpa

(*Korean Spiraea*)



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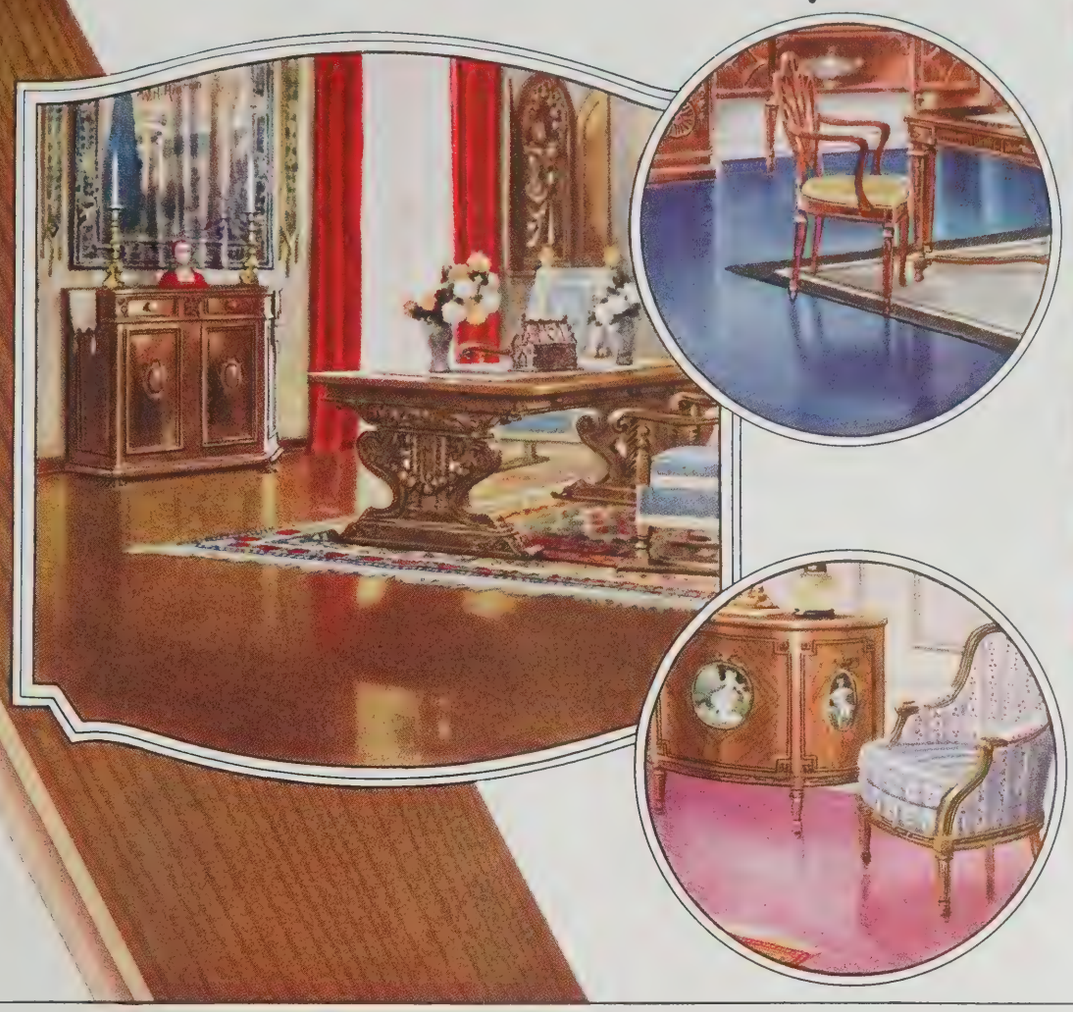

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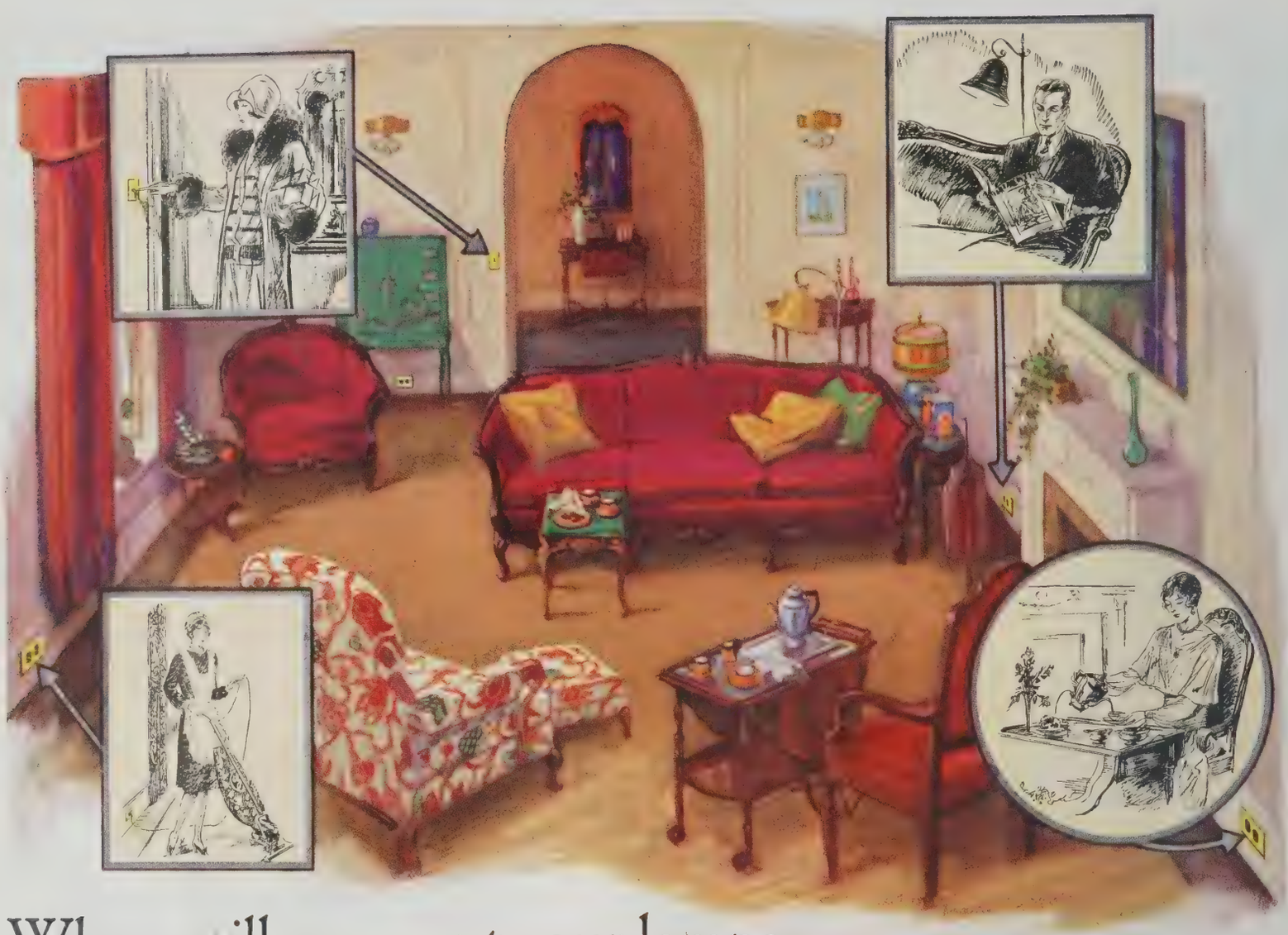
Floor *with* Maple



Where will you want your lamps ....where will you plug in your cleaner?

Plan your wiring when you plan your home

When you build or remodel a house think of each room as it will be when you're living in it. Place your furniture mentally. And consider all the possible arrangements to which you might later want to shift. Plan your wiring at the same time—and plan it adequately.

In your living room, for instance, where will you put your lamps? Where will you have outlets for your vacuum cleaner? Where will you plug in your toaster when you want to have tea? Will you have a switch at the door, so you won't have to grope in the dark?

And remember that there is one simple way of getting every electrical comfort. Have a General Electric Wiring System. It is completely planned. It specifies plenty of convenience outlets—switches at every door. And its materials, made and guaranteed by General Electric, assure the real economy of lasting service.

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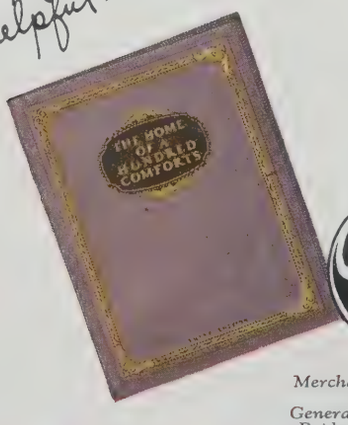


Merchandise Department
Section 13
General Electric Company
Bridgeport, Connecticut

GE WIRING SYSTEM

—for lifetime service

GENERAL ELECTRIC

Come Into the Garden

ECSTATIC rather than static gardening would surely seem the more enjoyable, and especially so if gardening is looked upon in a sense of recreation—something for personal indulgence and amusement—a change in the routine of affairs. It has been pointed out before in many ways by many people that the occupation of gardening has virtues of its own, peculiarly its own, of a restful and reposeful character—that gardening is a solace to the troubled mind, and so on.

If attention to gardening is to truly serve this end and be a continuous interest, the appeal of novelty is an element that plays no little part. Myself, I have no patience with the garden that stays put—I cannot imagine taking real pleasure in the static garden—one that is delivered and finished—something to be regarded in peaceful contemplation and never to be changed. In fact, the very essence of gardening tends against all this. You must give attention. Plants become overcrowded. Some grow and others don't. As time goes on space becomes more valuable. Some things must be cut out and perhaps discarded forever, especially as we hear of or see some better things among our friends and neighbors. It is just this very element of activity coupled with the quick returns, I am sure, that so enthralls one with the Dahlia.

I have ever failed to appreciate how the same individual who will redecorate the house or refurnish the living room every so often will be content with a completely static treatment of the garden surrounding the house. Why should we not logically carry the idea of remaking or refurnishing the garden with as much enthusiasm as we refurnish the house? By all means, let us get some ecstasy into our garden viewpoint.

In gardening affairs novelty rather than variety is the spice of life. New things keep coming. Not only are there new varieties of old plants (which may or may not be better—that remains to be proved) but there are even new methods, new appliances, new accessories. For what is new in the plants you merely have to turn to the catalogs; and if you read with anything of the gardener's enthusiasm, you are surely in for a series of thrills—sometimes, unfortunately, to be followed by shocks of realization, but for all that you have had the experience and you have gained some knowledge.

THE WAY THINGS MOVE

The practices of gardening, based as they are on the processes of nature, seem to offer from one year to another little in the way of novelty or even variety. But things do move. We talk glibly now of spraying and of poisons that were not heard of by our fathers. All these things make gardening easier, more resultful. Slowly but surely these new things creep in almost unheralded and observed only by the most alert.

The stable manure counterpart, the product of Adco, is as good an illustration of this as any other that I might cite. Nearly every gardener has found out in one way or another about peat moss. Another accessory that I used last year with splendid results was buckwheat hulls. On the sandy soil of our gardens these buckwheat hulls showed themselves specially useful. There are probably other by-products that might be used as well. I remember seeing peanut skins (not the hulls) used as a mulch for Rhododendrons but the buckwheat hulls have special qualities to fit our particular needs. They incorporate so easily with the soil and used as a mulch at any time they surprise you by not blowing away, and then they incorporate naturally as the season goes on. I have used these hulls with entire satisfaction on beds of seedling Lilies and they add humus to the soil, preventing cracking and sun-baking in clay-like soils.

If we look in the field of prevention of insect attacks, a new element or rather a new way of using an old element has been introduced in several preparations that are based on combining the active principle of the old-fashioned Pyrethrum powder. The toxic principle kills a lot of troublesome pests.

New tools come and go. The gardener does not seem to be very receptive to special appliances. Is this a reflection of the average worker? It has been said aptly that only a good workman knows a good tool. Too little attention is usually given to the sundry and accessory pages of the seedsman's catalog.

It is not so long ago that the wheel hoe was looked upon with some suspicion. The use of disinfectant washes for seeds and cutting bench—salts of mercury, in fact—has not been accepted by the amateur gardener with the alacrity that might have been expected, but the commercial growers of Gladiolus and other bulbs have hailed these special preparations with delight. The amateur gardener should get out of the rut and try one or the other of these things which have surely come to stay and insure the results of labor invested.

Pestilence, famine, and disease would seemingly be a very common lot of many gardens. To a large degree these things might easily be controlled by ordinary methods of good cultivation in the beginning of the season. Soils need tillage; they need feeding. The two things are closely related. Tillage which in the ordinary garden plot means digging and feeding with manure (to get vegetable matter into the soil) would remedy ninety per cent. of the major troubles that afflict the small garden.

AN OLD FRIEND GOES

The announcement that the English *Garden*, the weekly publication that was founded so nobly and conducted so gloriously for fifty years, by that great contemporary gardener, William Robinson, is to cease its individual existence, emphasizes sadly to many of us a change that has come over world wide gardening affairs. *The Garden* is the third gardening periodical disappearance in England 'since the war.' Its many friends and readers on this side of the water will greatly miss its weekly visits.

A ROSE PICTURE

The cover illustration this month is a Cornucopia of Roses by that master of floral painting, Frank Galsworthy. The subtle charm of all Mr. Galsworthy's flower paintings is that they are 'speaking likenesses.' In the present cover the rosarian will recognize Golden Emblem and G. J. Glassford. What the pink one is, I do not know, nor could the artist tell me. Perhaps some reader can recognize it. An exhibition of Mr. Galsworthy's paintings will open at the Aeolian Hall in New York the latter part of March to overlap the time of the spring flower festival and meeting ground for garden and plant lovers—the fifteenth New York International Flower Show, March 19th to 24th.

Edward Barron

Photograph by Tebbs & Knell

OUTSIDE THE LIVABLE HOUSE

More and more we are appreciating the fun and the value of living out-of-doors; 'home' no longer stops at the doorstep but spills over into sunlit, unroofed spaces with a gardened touch. Dwelling designed by Warren, Knight & Davis for Mr. De Bardeleben, at Birmingham, Alabama

GARDEN & HOME BUILDER

Miss Madison, bright pink overlaid on white, is one of the outstanding new pink sorts. It won out as the best in its color class at Dalton Fair, 1925

Ethelyn is a winner in the Primulinus group, approaching the show type in size and form. Orange yellow

Mary Frey, lavender, winner of the American Gladiolus Trial Ground Trophy; also best seedling at Rochester in 1925, and best lavender in 1926

Tested and Proved Prize Winners in Gladiolus

Varieties showing a combination of good growing qualities and large flowers that consistently behave well

FORMAN T. McLEAN

Editor, 'The Gladiolus Review'

GLADIOLUS are so easily grown that we can produce good ones in any ordinary garden soil, with about as much attention as we would give to Sweet Corn or any other garden vegetable. But if we want the very best, that is quite another matter.

After all, there are not so very many Gladiolus varieties that are consistent winners; the ones that win only occasionally are not the real ones. Those in the regular prize winning group hold their places because of conspicuous merit which they display year after year. So they are apt to be reliable performers and worth knowing. The exhibition sorts constitute a well defined coterie of tall and stately varieties of which anyone might be justly proud.

Of course, the newest introductions have not yet won their places here, and there are besides many fine sorts that never win any awards. The beautiful deeply ruffled varieties, and those of unusual form or coloring, do not gain rightful recognition in the showrooms. Also, many of the prettiest, most graceful general purpose sorts do not conform to the demands in the prize schedules. The usual classification at the shows is into three types: (1), the Large-flowered or standard sorts, (2) the Primulinus Grandiflorus; and (3), the Primulinus.

Mrs. F. C. Peters, pale lavender, an ideal show spike, conspicuous among the winners at recent exhibitions

The standard varieties are of the usual garden type. Large, full, tall, straight spikes are demanded for exhibition; with the flowers all facing in one direction and many of them open at once. Good arrangement of the blooms, neat, compact form, clear coloring and long stems all help to win the prizes.

The Primulinus type is entirely different. In this group the prominent traits are slenderness and grace. The blooms are small, hooded, and widely spaced on slender stalks. Five or six open blooms are enough for a slender Primulinus to carry gracefully at one time and delicate colors are preferred.

The Primulinus Grandiflorus are intermediate between the standard and the Primulinus. They combine large showy blooms with something of the delicacy and graceful habit of the Primulinus.

It would be quite possible to have as

many types among the Gladiolus as in Dahlias, Chrysanthemums or Peonies, but such a detailed classification has not yet been undertaken.

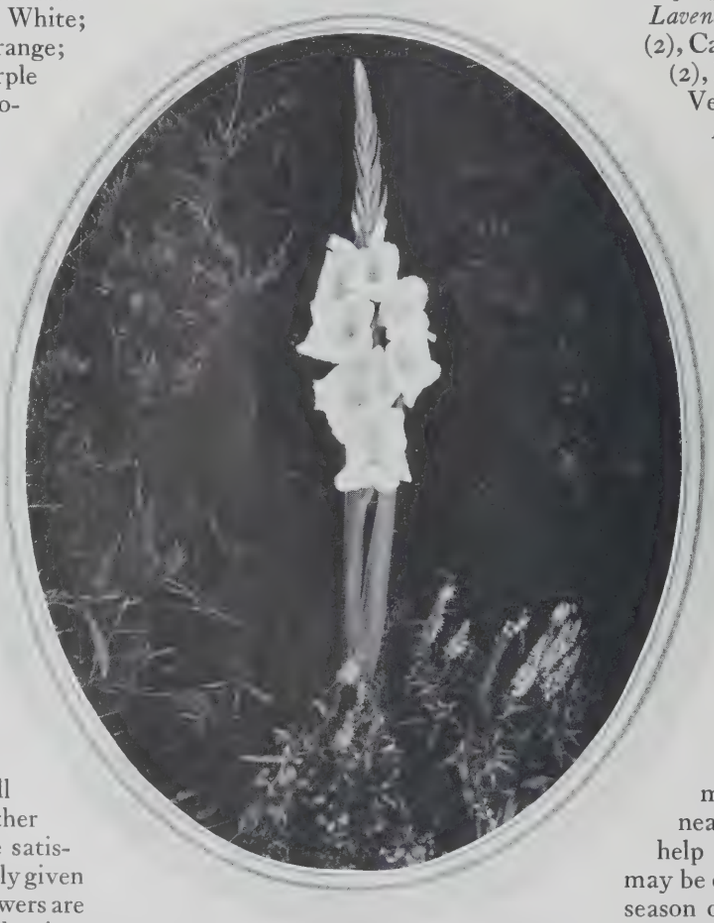
The larger shows have rather elaborate color classes. They have been established in an effort to avoid discordant or inharmonious color groupings. It is certainly worth while from an artistic standpoint. As one looks over a large exhibition hall, a well balanced color scheme assuredly adds to the pleasing impression of the mass of flowers. But to the small exhibitor, bringing in a few blooms for the first time, it is a bit puzzling to find just where they should be placed. The close color definitions add to the perplexities and confusion of the large and unorganized crowd setting up the exhibits. But when all due allowance is made for the confusion, some of the exhibitors must surely be color blind!

The great range of colors among Gladiolus, the remarkable color combinations, and the wealth of intermediate tints make a logical grouping by colors rather difficult, at best. Some of the color classes are obvious enough at first glance. White; cream, buff and apricot; yellow; orange; salmon; scarlet; red; dark red; purple and mauve; blue, lavender and violet; smoky shades;—all seem quite clear in our minds, perhaps. The pinks, flesh, light pink, rose-pink, rose and salmon-pink are less easily distinguished. Then if there is another class for 'any other color,' just what may we put there? The Gladiolus is to be commended for its wealth and variety of coloring, but these colors blend so evenly from the one into the other as to be confusing at times.

For purposes of assembling the best show varieties by colors, perhaps a simpler grouping into twelve classes will be sufficient: white; cream and buff tints; yellow; orange; salmon tints; light pink; deep pink and rose; light red; dark red; lavender and violet; purple and mauve; smoky colors, including all odd shades. This is, of course, a rather rough classification. Full and quite satisfactory color descriptions are usually given in the dealers' catalogues. If the flowers are intended for exhibition, however, the time of flowering for each variety is also very important, and information about this is less easily obtained. For this purpose the varieties can be grouped rather conveniently into five classes, those in each class flowering during approximately a ten day period. Class 1 is the earliest, Class 2 second early; and so on to Class 5 which includes the late sorts.

Golden Measure. Years of steady winning have put this in the front rank as a prize yellow

Of the many varieties that have won recognition at Boston, Rochester, in the Canadian shows and elsewhere during the past two years, only those that have been quite consistent winners or that have shown unusual promise are included in the following list. It makes no claim to completeness, but those in it are of proven worth.



Mrs. F. C. Hornburger. This stalk took the honors as the best Gladiolus in a remarkably fine exhibition at the Connecticut State Fair last autumn

The figures in parentheses after each variety give the season of bloom of the variety, and the abbreviations Prim. and P. G. stand for Primulinus and Primulinus Grandiflorus respectively.

White: Albania (2), Carmen Sylva (3), Dr. Elkins (3), Europa, (5), H. C. Goehl (4), Mrs. F. C. Hornburger (4), White Butterfly (Prim.) (1).

Cream: Fern Kyle (3), Mary Pickford (2), Ming Toy (P. G.) (2), Theda (P. G.).

Salmon: Alice Tiplady (P. G.) (3), Catherine Coleman (4), Mrs. Leon Douglas (4), Salmon Beauty (Prim.) (3).

Yellow: Flora (4), Gold (2), Golden Measure (3-4), Morning Glory (2).

Orange: Ethelyn (P. G.) (3), Orange Glory (4), Orange Queen (P. G.) (2).

Pink: Evelyn Kirtland (4), Maiden's Blush (Prim.) (1), Miss Madison (4), Mrs. Dr. Norton (3), Pink Wonder (4).

Rose Pink: Early Sunrise (2), E. J. Shaylor (2), Maurice Fuld (4), 1910 Rose (1-2).

Light Red: Dr. F. E. Bennett (3), Midsummer Dream (Prim.) (2), Scarlano (4).

Dark Red: Crimson Glow (3), Purple Glory (3).

Lavender & Violet: Byron L. Smith (2), Capt. Boynton (3), Kirchoff's Violet (2), Mrs. F. C. Peters (4), Muriel (2), Veilchenblau (3).

Purple & Mauve: Anna Eberius (3-4), Duchess of York (2-3), Purple Perfection (4).

Smoky: Desdemone (4), Romance (2-3), Rose Ash (3-4).

All these varieties have won in real competition, and are or will be quite reliable prize winners. Whether you can win with them depends on two things; having them flower on time, and having them at their very best when judged.

How may we utilize the information on blooming season, in order to have each variety bloom just when it is wanted? The time of flowering depends so much on the soil, location and date of planting that no general rule can be given. An illustration of how it may be applied to average locations near the seacoast around Boston may help to show how the planting time may be computed from a knowledge of the season of bloom for the variety, and the date when the flowers are wanted. The following little table gives the approximate average number of days from planting to bloom for different classes of varieties and dates of planting, in New England.

Class:	(1)	(2)	(3)	(4)	(5)
Date of Planting.					
April 15	85–95	96–105	106–115	116–125	126–135
April 25	80–90	91–100	101–110	111–120	121–130
May 5	75–85	86– 95	96–105	106–115	116–125
May 15	70–80	81– 90	91–100	101–110	111–120
May 30	65–75	76– 85	86– 95	96–105	106–115

(*continued on page 78*)

Making a Little Walled Garden

The third article in this series on different types of little personal gardens has an old world flavor

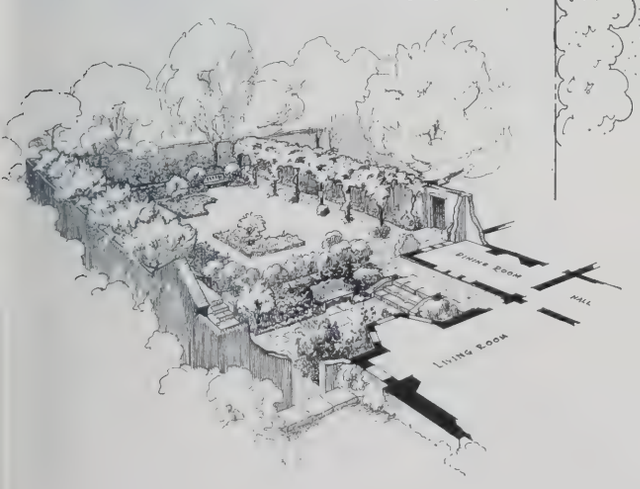
RALPH E. GRISWOLD, Landscape Architect

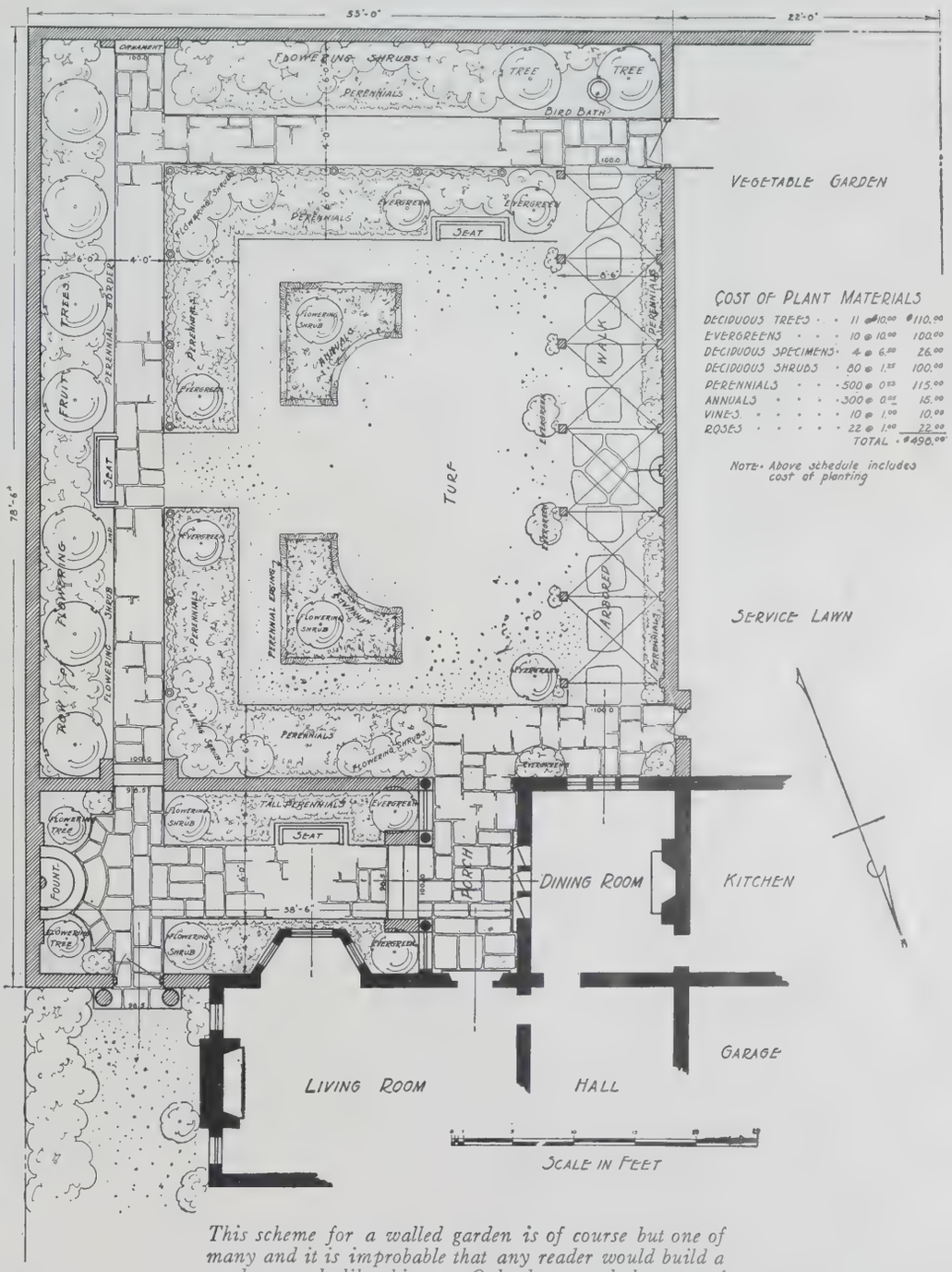
Pittsburgh, Pa.

YOUR garden should be something very personal, very intimate, and livable. If it is a walled garden you have a far greater opportunity to display your individuality; if it is a small garden you have an opportunity for perfection impossible on greater areas. The inherent idea that walls are unfriendly, undemocratic and un-American is a provincialism grown out of the traditional open lawn surrounding the dwellings of our forefathers, for to be surrounded with a friendly enclosure that excludes all distracting activity and shelters one in the quiet beauty of his own creation is a pleasure too rarely enjoyed.

Gone are the days when our homes can be set in park-like aloofness out of hearing and intimate view of our neighbors! With our seventy-five and fifty foot lot fronts we again return to the congestion of Europe, and again we must seek inspiration from the intensive use the European makes of his small property heritage. Experience with modern city life is teaching us that the beauty of our community landscape is not created by an open sweep of busy backyards. Your little walled garden that expresses your taste and individuality will be far more pleasant to your neighbors when they are friendly enough to call, than your open lawn constantly in their view, no matter how attractive that may be. The expense of masonry walls, though terrifying, need not be prohibitive if regarded as an enduring asset to be reckoned with the cost of the house.

Hedges, though beautiful, are extravagant usurpers of space and nourishment; they are difficult to (*continued on page 84*)





COST OF PLANT MATERIALS

DECIDUOUS TREES	11	@10.00	$110.00
EVERGREENS	10	@10.00	100.00
DECIDUOUS SPECIMENS	4	@6.50	26.00
DECIDUOUS SHRUBS	80	@1.25	100.00
PERENNIALS	500	@0.23	115.00
ANNUALS	300	@0.05	15.00
VINES	10	@1.00	10.00
ROSES	22	@1.00	22.00
		TOTAL	$490.00

Note: Above schedule includes cost of planting

This scheme for a walled garden is of course but one of many and it is improbable that any reader would build a garden exactly like this one. Only the general character of the planting is shown on the plan. There are many articles and sources of information on the various uses of such planting; and some scheme for a flower border, for example, is presented somewhere in the magazine almost every month.

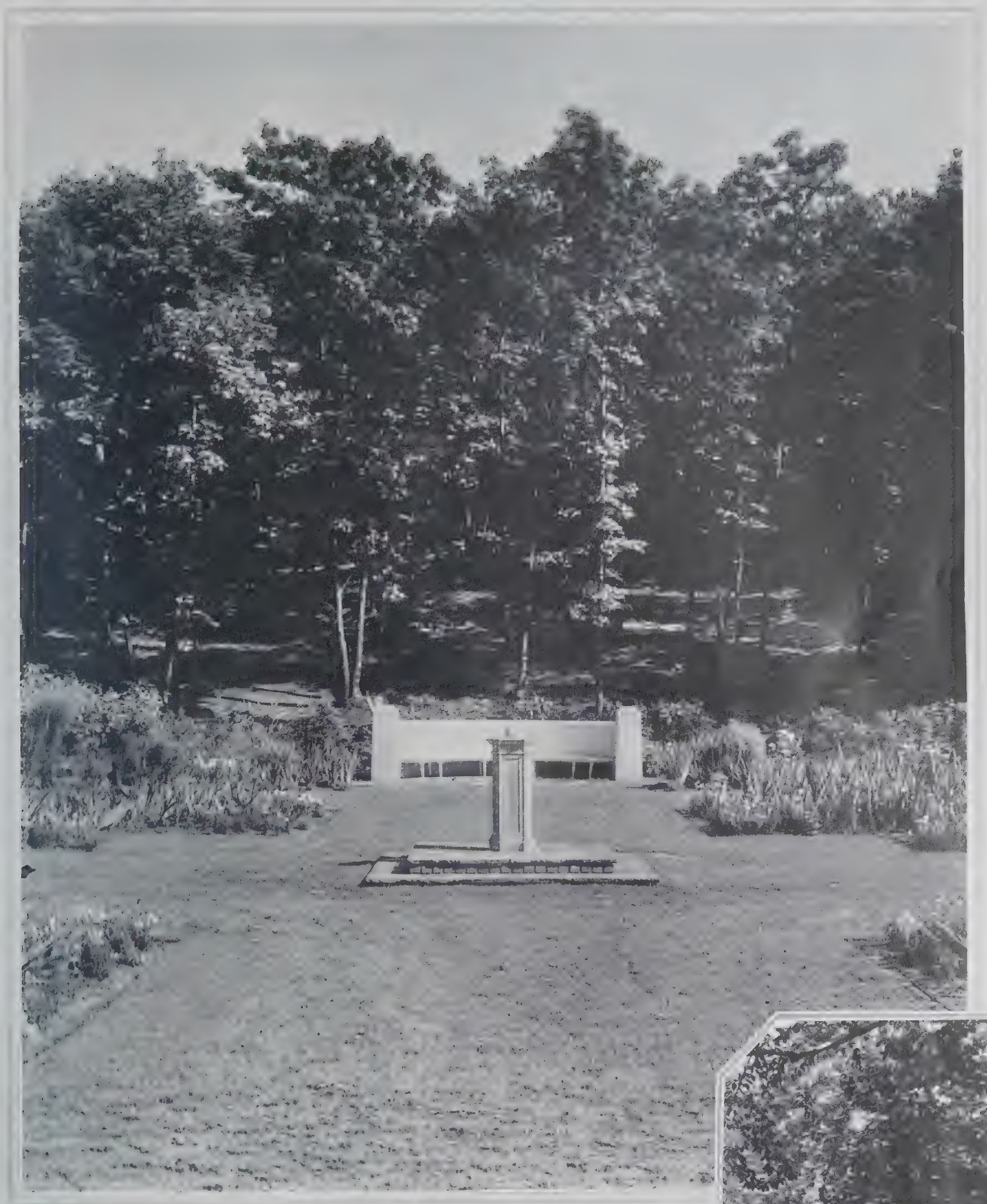
The plan as given here is the result of one definite house shape and must be adapted to fit another house shape. The amateur gardener often knows as much about detailed planting as the expert but he lacks the ability to visualize it in a scheme or composition. In this way he can make use of the plants he likes best or desires most

Singularly interesting is this semi-circular recess three steps down from the main sweep of lawn. Robert Ludlow Fowler, Jr.'s own garden at Katonah, N. Y.

This delightful little lattice house with its climbing Rose and its planting of perennials is in the garden of Mr. Henry J. S. Hall at Smithtown, L. I.; Ruth Dean, Landscape Architect

GARDENS WITH AN

Photographs by courtesy of the New York Chapter of the American Society of Landscape Architects



Rhododendrons and Azaleas have here been used as intermediaries between garden and woodland. At Southhold, N. Y.; designed by R. E. Schermerhorn, Jr. for Mr. John S. Jenkins

All the sunlight seems to focus upon this arch which emphasizes the entrance. At the home of Mr. Arthur C. Doornbos, Pelham Manor, N. Y., Spoon & Hoggson, Landscape Architects

ARCHITECTURAL NOTE

from their Fifth Annual Exhibition opening on March nineteenth at the Arden Gallery

Another Way of Lessening Your Fire Risk

New ways of rendering wood spark-proof which increase safety and decrease insurance

GEORGE A. GARRATT

Asst. Professor, School of Forestry, Yale University

NOWADAYS when houses rub elbows and communities grow ever more compact it is comforting to know that improved construction keeps pace with altered conditions, that better building materials are constantly being made available. Wood is a lovely and a durable material as many and many an old home of the Colonial period still stands to testify. However, the fact that it is inflammable has led various municipalities in recent years to revise their building codes to regulate the use of wood within certain areas. In consequence much experimental work has been done and several practical means of making the material less combustible have been devised and are in actual use to-day.

There are two rather distinct ways of increasing fire-resistance: (1) the use of surface coverings, such as metals, 'fireproof' paints, and the like which are intended to hinder combustion by preventing the free access of air to the wood; (2) the impregnation of the wood with chemicals which retard burning. It is to material treated in this latter way that the term 'fireproof wood' is commercially applied.

The 'fireproofing' of timber by chemical impregnation is by no means an innovation, for such treatment has been known in Europe at least since the middle of the nineteenth century and has been used in the United States almost continuously since 1895. The original demand for 'fireproof wood' in this country was occasioned by a U. S. Navy Department specification requiring the use of such material in the construction of decks and certain other parts of all new warships. The market was further expanded in 1899, when the New York Building Code was revised to prohibit the use of wood for floors and interior trim in all buildings over twelve stories (150 feet) high, unless it has been satisfactorily 'fireproofed.' The Navy Department early experienced difficulty with the treated wood, due to the failure of the impregnated chemicals to give satisfactory service under the damp conditions to which they were subjected on vessels, and its use was discontinued in 1902. This same trouble was not experienced when the timber was protected from moisture, however, and the results obtained have led to its continued use in New York.

In addition to its ability to thoroughly penetrate the wood there are a number of qualifications which a chemical process must possess in order to serve satisfactorily as a fire-retardant. The outstanding requirement is, naturally, that it be effective. This does not necessarily imply that the substance must be capable of rendering timber absolutely fireproof for, although it is quite possible to treat wood so that it will not support combustion or show flame at temperatures in excess of 5000 degrees Fahrenheit, none of the chemicals used in present commercial practice are so efficient. It means, rather, that the impregnated chemicals shall be able to retard ignition to such an extent that any sparks, or glowing embers, which come in contact with the treated material will burn out without setting fire to it. Further, when a blaze is played on the wood for a brief period, that portion in contact with it should glow rather than flame, and there should be no tendency of the fire to spread, all burning ceasing almost immediately upon the removal of the blaze.

The chemical must also have the ability to retain its efficiency indefinitely under the conditions to which it is subjected. It is noteworthy that this requirement of permanence has limited the use of 'fireproof wood' to interior construction, where it is not exposed to moisture. This results from the fact that all of the chemicals used up to date in commercial treatments have been water-soluble salts. In consequence, when the treated material is exposed to rain or other forms of moisture the chemicals are subjected to leaching and their efficiency is in time lost.

CHEMICALS USED IN 'FIREPROOFING'

Effectiveness throughout the serviceable life of the wood is not alone sufficient, as is evidenced by the failure of some of the most effective salts to find favor as fire-retardants. The substance must also be comparatively cheap, reasonably non-corrosive to metal with which it comes into contact, not so hygroscopic as to affect paints and finishes applied to the wood in service, and non-poisonous. In addition, it should not affect the strength and workability of the treated wood too markedly.

In most instances the development and use of fire-retardant compounds have been surrounded by great secrecy, but it is evident that the various chlorides, sulphates, phosphates, and silicates have received the greatest attention. Only a comparatively few of these, however, have been successful in meeting the imposed requirements and so far as I am aware the great bulk of the present-day commercial treating is done with ammonium phosphate and ammonium sulphate, although sodium borate (borax) may be used to some extent.

When timber is first subjected to the conditions which result in ignition, the moisture it contains is converted to steam and driven off in the form of a water vapor. The continued action of heat then brings about a decomposition of the wood substance and certain combustible gases are liberated. These gases, in the presence of air, ignite and continue the combustion until the timber is entirely consumed and only a residue of ash remains, composed of the metallic salts originally present in the wood and the carbonates formed during the burning.

It is evident that the control of the evolved combustible gases offers a logical solution to the problem of making wood more fire-resistant and it is this result that is sought in the use of the aforementioned chemicals. Under the influence of heat, ammonium sulphate sublimes (volatilizes without leaving any residue) and liberates certain gases, which tend to dilute those evolved from the heated timber to the extent of making them non-inflammable. Ammonium phosphate has a dual effect, breaking up into the gas ammonia, which acts as above, and the fusible phosphoric acid, which spreads over the surface of the wood and tends to exclude the air necessary for combustion. Borax likewise offers a two-fold resistance, first giving off a water vapor to dilute the combustible gases and then fusing to form a more or less airproof covering over the treated material.

TREATMENT OF WOOD

To be most effective the chemicals must thoroughly penetrate the wood and for this reason 'fireproofing' is accomplished under artificial pressure in closed cylinders in a manner similar to that used in wood preservation. The (*continued on page 72*)

Pineapple teapot made by Whieldon. Metropolitan Museum of Art

No design in china has been more beloved than the Willow pattern. Metropolitan Museum of Art

Cauliflower teapot of unusual coloring and shape. Metropolitan Museum of Art

Heirlooms of Yesterday and To-morrow

How to tell the true from the fake antique—a monthly feature

ESTHER SINGLETON

AT THE present moment there is a great rage for early American furniture. To many persons this means furniture of very primitive style and of the most ordinary workmanship. Crude and rough furniture, however, does not properly represent our American Colonial homes where comfort and style were sought for and expressed. Our seventeenth century colonists very early possessed handsome Tudor and Jacobean furniture; some of this was imported and some of this was made here, for there were numerous skilled cabinet-makers in Colonial days. At the same time cheap joiners were turning out rough furniture for farmhouses and for poor people—furniture which was worth little when it was made but which to-day brings ridiculously inflated prices at auction sales and in the antique shops. Most of this primitive 'American furniture' is faked, and the demand is so great that factories are dotted all over the country making 'American antiques'!

In collecting early Americana why not search for pieces of the type used by our wealthy colonists which have beauty of line, proportion and decoration, and which speak of the refinements of living?

Carved oak furniture of the early seventeenth century is almost impossible to acquire; the little left has been captured by museums. Oak furniture of a later period decorated with black applied ornaments is nearly as difficult to acquire. If there was as great a demand for it as for primitive furniture good reproductions would soon be on the market.

True Waterford glass can always be told by its clear bell-like tone when struck. Prouty Collection, Boston

Fancy chair with its rush seat, painted frame, and gilded balls. Metropolitan Museum of Art

Here is a very handsome chest of the type made in Connecticut in the vicinity of Hartford and New Haven. The Bride's Chest has two long drawers at the base and a deep well at the top. The chest is oak, decorated with applied ornaments (spindles and eggs) stained black.

The three panels on the well are carved in floral designs and painted in bright colors, touched here and there with white. This Connecticut 'Bride's Chest' must not be confused with the Hadley Chest made in the town of Hadley, Massachusetts. The name Hadley is not generic. The illustration shows a typical example. It has only one long drawer and the entire front is incised. We often hear the term Hadley Chest misapplied.

Another name that is often incorrectly used is Hitchcock (*continued on page 72*)

Interesting old Hadley chest with an incised front. Metropolitan Museum of Art

Connecticut Bride's Chest, American, Seventeenth Century. Metropolitan Museum of Art

Gate-legged table, American, seventeenth century; although primitive it is of a very interesting type. American Art Galleries

NEW POTTERY LAMPS OF DISTINCTION

Simple and unique designs in colorful pottery
by Clara L. Poillon

MRS. Poillon's pottery lamps, graceful in line and restfully soft or brilliantly rich in color, do not belong in the ranks of *art nouveau*—rather, indeed, where standards obtain which have been proved worthy to endure the tests of time and artistic judgment. Lamps there are for the room of French, Italian, Chinese or Colonial inspiration, with shades of hand-decorated parchment or soft silk or georgette, appropriate for living room, bedroom or hall.

Where the Guest Feels At Home

A. LOUISE FILLEBROWN

MY IDEAL guest room stands first for comfort and then for cheerfulness. It is one of the larger, sunny rooms in the house, attractively decorated with warmly colored walls, gay washable linen curtains at the windows and crisp ruffled under curtains to temper the light. The furniture is solid and substantial, but attractive in line. The bed is comfortable, with spotless linen, and woolly blankets; and above all there is a luxuriously warm satin covered wool comfort at the bottom, for the shivery guest. Beside the bed is a reading table with a good lamp, several late magazines, a book or so, a crystal water bottle and glass, and underneath—wonder of wonders—a thermos bottle full of ice water that stays cold all through the night. On the dainty dressing table are the usual array of bottles and covered jars; and investigation finds them all full of the proper ingredients for personal adornment: rouge, powder, talcum, cold cream, perfume, toilet water, and —old-fashioned as it may be—hairpins.

If possible there is a tiny fireplace with a fire laid ready to light. A comfortable upholstered chair is before it, with a smoking stand beside it supplied with cigars, cigarettes and matches. If our modern feminine guest does not need the hairpins, possibly she will welcome the little packet of cigarettes that accompanies the man-sized box.

Furnished simply in the Colonial manner with thought for the visitor's comfort in every detail is this bedroom designed by Margery Sill Wickware

A fireplace with the logs laid ready-to light is a delightful addition to the guest room. Jane White Lonsdale, Decorator

The room is sunny by day, and warmly glowing at night, for there are well placed lamps with softly colored shades. Bits of pottery reflect the light, and fresh flowers give the room a lived-in, inviting atmosphere. In the sewing table are all the necessary implements to mend an unexpected tear, or to darn a stocking. There are buttons that fit masculine shirts, and snappers that will fasten the feminine sleeve-band. The desk is stocked with writing-paper, pens, stamps, playing cards, postal cards, and time tables. The drawers of the bureau are empty of clothes and lined with colorful fresh cretonne, ready to receive the daintiest clothing. The clothes closet is also empty of family belongings, but it has rows of satin covered hangers, several gay paper-covered hat boxes; and a shoe bag hangs on the door to keep your satin slippers from any possible dust.

On the door hang a warm bathrobe and a dainty silk and chiffon negligeé, with slippers to match, for the unexpected guest. *(continued on page 114)*

A comfortable chair with near-by table holding book, ash tray, and gay flower, are furnishings the visitor will appreciate. Jane White Lonsdale, Decorator

Getting Dandelions Off the Lawn

A poison spray and then feeding the grass by light fertilizer gets results quickly and easily

ALBERT A. HANSEN

Purdue University Agricultural Experiment Station

THE average lawn owner attempts to control Dandelions by merely cutting off the tops with a knife. As a matter of fact, this is worse than useless since decapitation merely encourages the pest to develop two heads where but one grew before. This was thoroughly demonstrated on the lawn of the United States Department of Agriculture at Washington, the spring mecca of hordes of Dandelion cutters who annually gather the bright blossoms for wine and the tender leaves for greens. After many years of this treatment the Dandelions had actually increased in numbers. I once dug up and examined the roots of these vigorous government wards and the reason for their extraordinary vitality became perfectly apparent. Instead of the single fleshy root of the normal Dandelion, each root had divided a few inches below the surface into two to four or more branches and each branch in turn terminated in a leafy crown resplendent with golden blooms.

Spraying with iron sulphate, 2 pounds to the gallon of water, kept down Dandelion growth on this lawn last year. The lawn needs reseeding and fertilizing to keep it clean

Four years ago our campus lawn of Bluegrass was a golden sea of Dandelion. Now the same area is practically unspotted and unsullied by the cheerful yellow pest. Instead, the turf presents a smooth, velvety appearance that is a delight to the eye, a soft carpet to the feet, and the envy of many a lawn owner. This striking transformation was easily achieved without any of the back-breaking labor with knives, hoes and other implements that characterize the usual efforts at ridding lawns of this unwelcome intruder. What was done here can be done just as easily on anybody's lawn.

Having read about the iron sulphate spray against Dandelions recommended by at least two of the experiment stations, we first decided to give this method a trial. In our first test a piece of the campus was sprayed four times with iron sulphate during one season and four times the following year. The Dandelions greatly decreased in numbers, but as soon as the spraying ceased they began to appear again in abundance. So a further trial was made.

During April, 1922, I staked off a plot of turf containing approximately 200 square feet (about the size of the average front-yard city lawn) badly contaminated with Dandelions. With the aid of a small pressure sprayer of the type recommended for the home lawn, the infested area was thoroughly sprayed with a solution prepared at the rate of two pounds of iron sulphate to the gallon of water. Four more sprayings were applied at intervals of one month.

Following each spraying the Dandelion foliage blackened and withered until toward the end of the season the pest was apparently under control. There was joy in our hearts until the following season when our pampered plot broke out anew with a heavy infestation of the familiar yellow blossoms. The spraying method apparently might be all right as a temporary expedient, but it had the fatal weakness of leaving the turf susceptible to future attacks from both the old roots left in the soil and new seeds blown in. It was evident that a different plan of attack was necessary, a plan that would 'immunize' the greensward.

The new plan decided upon was simple enough. Why not create such ideal conditions for the grass as to leave no room for the Dandelions to develop? And so a mixture made up of equal parts of sulphate of ammonia and a complete fertilizer of the formula 3–6–6 was applied to the campus at the rate of 275 pounds per acre during early May. The effect became evident from the start. Where evenly distributed the grass grew luxuriantly, making a tight turf in which the Dandelions grew pitifully small. A few spots missed by the drill were well populated with Dandelions and stood out in colorful contrast to the almost solid green.

The following season the same treatment was repeated with equally gratifying results. During the third year, a 50–50 mixture of sulphate of ammonia and acid phosphate was used at the rate of 275 pounds per acre. As a result of the three annual applications of fertilizer, a thick, velvety turf has been developed from which Dandelions, Sorrel and other common lawn weeds have been practically excluded. In addition to eliminating the Dandelions, we also produced a turf resistant to the attacks of the yellow-flowered weed legions, a result that was not achieved by the use of sprays.

We believe that the large-scale test on the Purdue campus has demonstrated that, in the long run, the best way to control turf weeds is to crowd them out by improving the grass. This means that in addition to judicious fertilization, due attention must also be paid to such important matters as watering, seeding, etc.

Ordinarily the greensward should not be sprinkled until dry weather begins, when a single thorough wetting once a week to a depth of at least six inches is better than a series of light daily applications of water. The manner of adding manure is also important—if huge gobs are allowed to lie on the turf the grass underneath is certain to die, leaving a bare spot that is (*Continued on page 82*)

Now It's Seed Time for the Flower Garden

What to plant with a view to making the flower border serve the needs of the house—selection of kinds and quantities

FLORENCE TAFT EATON

HALF the delight of a garden comes from seeing things through from start to finish. It is all very well to have a ready-made garden. Of course it gives much pleasure, but nothing comparable to the pride and joy of the garden that you have planned and planted from the very beginning.

You grow flowers in the garden for what purpose—merely for outdoor ornament or also to supply bloom for inside decoration? In a little garden the two things must be combined. Only in the big gardens are they separated, with a practical picking garden and a show garden that is nothing but display. Our own flower garden is a utility one and the plants in it are both to be looked at and to serve. And so, in the lists that follow I am giving my favorites, those that have proved successful on the average. After all, they can only be suggestions to another. Anyhow it is a good plan to change varieties from year to year. Read, yes, pore over your favorite seed catalogs and pick out the things that they offer you. Then gradually cut your wants down to practical limits. We usually pick out about three times as many as we have room to accommodate.

The ordinary early seed planting deals mostly with annuals. Of course, you can raise the perennials from seed. In fact this lavish method of obtaining them is one of my fascinating garden hobbies, but perennial planting is an early summer job. For the ordinary small garden it is better to buy according to needs. The established garden includes perennials as its backbone to which the new varieties are added year by year.

Spring seed planting in our case then is concerned with annuals only. From a utility standpoint it is hard to exactly classify the enchanting company but for convenience sake we make the following divisions. In each case I suggest the practical quantity to purchase which should save some trouble for the newcomer in trying to find his way through the catalogs:

(1) All-season bloomers, really the most valuable class, lovely for picking, and also decorative in the garden. Keep all fading blooms cut off.
(2) Pickers, things that are well worth while as cut flowers for indoor use but somewhat insignificant in the garden.
(3) Edging plants, to border walks and beds, and help furnish the garden.
(4) Showy flowers, yet having a short season of bloom.
(5) Biennials that will bloom this season if planted early.
(6) Some new varieties of old timers, and the real novelties.

(1) THE ALL SEASON BLOOMERS

Asters. Practically all-season if kept cut; although I advise making two plantings. My favorites are the single, large, daisy-like flowers of every enchanting color, with yellow centers. A collection of one-eighth ounce each of four colors, mixed, would supply two plantings in a large garden. One packet each of your favorite doubles, or one-fourth ounce of finest mixture, is a liberal amount. One packet each, of mixed, of singles, and doubles, will make one planting for a small garden. Transplant six inches apart.

Zinnias. No flower has been more spectacularly stressed of late than this which now includes many special varieties of varied size and exquisite coloring. Do not buy mixed seed, but single packets of finest colors. Include Dwarfs (fine border plants), Giant, and Dahlia-flowered, in pinks, salmons, primrose, and white; six packets enough for large garden, seedlings transplanted well apart. All Zinnias make showy borders in the vegetable or flower garden; or, in groups, are splendid fillers in perennial plantings.

Marigolds. Invaluable. Include single and double French varieties, and the double African. One packet each, mixed, enough for a large garden. Makes fine hedges or groupings.

Cosmos. Spectacularly improved of late. One half-packet each of Double, Early Hybrids, and Midsummer Giants will suffice for a large garden. Transplant a foot apart in rows, or set sparsely in the asparagus bed—lovely combination. Must be staked if in rows. Sows itself.

Petunias. Germinate slowly; house-start if possible. One small packet each of Violet Queen, Ruffled Giants, Rosy Morn and mixed, suffices for an unlimited space. One of the gayest of annuals. Seed or seedlings may be shared.

Verbenas. Start in frame or house if possible, as seedlings grow slowly at first. Concentrate on Mayflower—large heads of exquisite pink (but it's safer to buy plants). Mammoth Hybrids a close second.

Calendula. Invaluable for late cutting. One packet each of Orange King and Lemon Queen, or one packet Finest Mixed.

Annual Coreopsis or Calliopsis. Charming free-flowering annuals, yellows and bronzes, delightful in the mixed bouquet. Blooms until late frost; clip down once. One packet, mixed; will resow itself forever!

Mignonette. Invaluable for its delicious odor and to use with cut flowers. One packet; sow in position; will not transplant.

Double Larkspur. One of the very finest of annuals, supplying long stalks of luxuriant bloom of every enchanting color. One-half ounce, mixed, or 'collection' (*continued on page 110*)

Not pretentious, but serviceable and practical—a friendly personal garden of flowers that fits the homelike simplicity of this little house. It has the 'old-fashioned' flavor of real use

Insulating the New House for Comfortable Living

Materials that cut down the heat cost and add to your comfort the year through

BENJAMIN F. BETTS

Associate Editor, 'The American Architect'

INSULATION is not a new idea. Obviously, the first hut ever built was an attempt at insulation, an effort on the part of primitive man to shut out too much cold or too much heat, to keep comfortable and dry, to shelter himself from the doubtful mercy of inclement weathers. What is new, however, or at least comparatively so, is the development during recent years of a special group of materials for the purpose. The manufacturers have been keeping pace with scientific findings and have shown considerable ingenuity in this turning to account by-products which formerly often were mere waste. In consequence, the home owner has at his disposal far greater means of comfort than ever before and there is no reason in the world why any house to-day, if properly built, should be either drafty in winter or overheated in summer. Further than that, insulation is in the long run actually an economy.

ADVANTAGES OF INSULATION

An insulated building has a number of very definite advantages. For one thing, a smaller heating system can be used in an efficiently insulated building than in one where heat is lost through walls, doors, windows and roofs. A reduction in the size of the heating system reduces, of course, not only the initial cost of installation but also the annual fuel bill. Effective insulation means that the rooms immediately under roofs become comfortable and habitable at all seasons and that no space is unnecessarily wasted. In other words, the home builder may have a larger house at practically no increased cost, or he may reduce its initial size because unusable areas are reduced to a minimum. Adequate insulation results in houses not only warmer in winter and cooler in summer but also more easily maintained at a uniform temperature. Drafts in rooms are often due to warm air being rapidly chilled through contact with cold outside walls. The cool air falls quickly to the floor and rapid air circulation is thus set up. Dampness is often due to the condensation of warm moist air on cold walls, ceilings and roofs. Insulation is an effective preventative in the case of both drafts and dampness from the above causes.

Many materials serve the dual purpose of heat and sound insulation which are often confused and erroneously thought to follow the same principles. Heat transmission is a molecular action, while sound transmission is a mechanical vibration. Sound waves are broken up and absorbed by passing through a number of layers of certain materials separated by air spaces or soft material. 'Dead' air spaces, effective in preventing heat transmission but acting in a manner similar to confined air in a drum, are conducive to the transmission of sound. Air free to move will transmit heat but will not readily carry sound vibration from one material to another.

Some acquaintance with the principles of heat will help one to understand the processes of heat insulation. Heat is a form of energy equivalent to mechanical work. It possesses two qualities, corresponding to *intensity* and *quantity*. The intensity of heat, referred to as temperature, can be measured by a thermometer. Heat quantity cannot be measured, except by the effect it produces. The standard of measurement in English-speaking countries, is called the British Thermal Unit (B.T.U.), and is the amount of heat required to raise one pound of water one degree Fahrenheit. Heat passes from a warmer body to a cooler body by radiation, conduction, and convection. Air warmed by an open fire is an example of heating by radiation. Heat applied to one end of a bar of metal produces a rise in temperature throughout the length of the bar. This is an example of heating by conduction. Air passing over a hot body is warmed by convection.

HEAT INSULATION

The heat insulation of buildings is concerned with heating by conduction. The conducting power, or heat transmitting quality of materials varies greatly. Metals are in general excellent conductors of heat, but even these differ among themselves. Wood, plaster, brick, stone, and concrete, in fact all building materials, vary through wide limits in their power to convey heat. Knowledge of the heat conducting power of materials is, therefore, important in both the design of heating systems to offset the heat losses of buildings and to judge the relative merit of different materials intended to prevent these heat losses by transmission through walls, ceilings and roofs.

Heat losses occur in houses and other buildings through windows, doors, walls, ceilings and roofs. Glass, an essential building material for houses, is a fairly good conductor of heat. To attempt to reduce the heat loss through glass by making window openings small and few in number can only be accomplished with an accompanying sacrifice in light and air. Very little can be done in the matter of reducing the heat loss through doors. Air infiltration around doors and windows can be largely prevented by the use of weatherstripping and by good construction. The transference of heat through walls, ceilings and roofs depends upon two things—tightness of construction and the correct use of materials that lessen heat conduction.

HEAT LOSS THROUGH ROOFS

While the heat transmitted through walls is considerable, that passing through roof areas is usually far greater in proportion because of the well-known tendency of heated air to rise. Roof areas (especially those that cut down into second-story rooms), the floors of rooms built over unexcavated areas, and the floors of rooms built over open porches need particular attention. You have probably noticed how snow lingers on the roofs of garages and other unheated buildings long after it has disappeared from the roofs of houses. The explanation is that the heat used to warm the house has penetrated through the roof and melted the snow. Such heat losses, as before stated, can be prevented by proper insulation.

Materials specially designed for insulating purposes can be divided into three general types: flexible and semi-flexible sheets, loose materials, and semi-rigid boards. A fourth recent development should perhaps also be added and may be referred to as the 'spray method.'

Flexible and semi-flexible sheets are non-structural in character (i.e. possess no value as structural supports or bracing) and, as the name implies, are flexible to handle. They are made of silk floss, eel grass, cattle hair, chemically treated wood fibre, asbestos fibre or flax fibre sewed between sheets of burlap, paper or felt. The semi-flexible sheets are composed of flax fibre, or flax and rye fibre. In the case of frame buildings, (*continued on page 86*)

Photograph by Mattie Edwards Hewitt

GRAPES AGAINST A GARDEN WALL

Grapevines have a decorative as well as a practical value and this way of planting is a suggestion for even the smallest courtyard or walled garden. At the home of Mr. B. Franklin Pepper, Chestnut Hill, Pa.

Berries Better Than You Can Buy

No question about the quality if you let them really ripen

M. G. KAINS

'WE RAISE them in our own garden.' There you are! You can not only grow better varieties than you can buy in the market but, because you do not have to ship the fruit away, you can let it remain on the bushes until it has developed the nectar and ambrosia of perfect maturity. You can have it on your table within an hour instead of a day (or usally longer) after it has been picked, and before its delicate aroma and flavor have been dissipated. Everyone knows that berries are the most unsatisfactory and disappointing fruits to buy in the markets and stores.

Once having eaten such home grown berries you will find it hard to resist the invitation to have just a few more. Though you will not be able to get fruit from your own bushes quite so early as it is offered for sale in the market from more southerly fields, you may continue to have berries in perfection for weeks after they have disappeared from the trade. For beginning with dewberries in late June, continuing with raspberries through July and with blackberries through August, the season may often be extended for a month or six weeks longer.

Rathbun, Agawam, and doubtless other long season Blackberries often continue to bear fruit until late September or early October. Kittatinny, Mercereau and Eldorado sometimes produce a partial crop on canes of the current season. As for 'everbearing' Raspberries, LaFrance, Erskine and Ranere (generally known as St. Regis) often continue to bear more or less fruit in the vicinity of New York until late October or even early November—should Jack Frost pay only little informal calls during this period.

Though it is only about 75 years since native Blackberries and Raspberries began to be cultivated in this country more than a hundred varieties have been introduced and discarded as better ones attracted attention. Less than a dozen of the older varieties of each fruit are still carried by nurserymen.

As with the tree fruits these varieties are mostly choice seedlings found growing wild. Not until recent years have systematic or scientific efforts been made to produce new varieties of known parentage. Yet interest in these fruits and opportunities for improvement are so great that experimenters, many of them amateurs, are now annually spending time and effort in variety origination and testing. The result is that every year sees the introduction of one or more new varieties somewhere in the country. Several of the agricultural experiment stations, notably those of South Dakota and New York, produced new varieties of Raspberries, some of which are already carried by nurserymen.

All this is eloquent of the interest taken in berries and indicates how the demand for fruits of high quality is being met.

Home garden tests of these fruits can be made in such short time that replacements can be made promptly when a variety fulfills less than its sponsors promised. When such cases occur neither the originator nor the introducer may be at fault because the same variety under different soil and other conditions may be a shining success. Therefore on the start it is a good plan to order only small lots—a dozen or a score—of plants of several early, mid-season and late varieties to be planted side by side for testing. Each variety so planted should be tested for at least three years so the plants may have a chance to show what they can do. After that new plants of the best kinds may be secured, preferably (and very easily) from the plants already growing on the place.

FAVORED VARIETIES

Prominent among the standard Raspberries are the following: *Red*; Cuthbert, Loudon, Herbert, Marlboro, Ranere, La France, and Erskine. Among the newer ones Ohta, Ontario, and Latham have perhaps attracted most attention, though the still newer originations at the New York Agricultural Experiment station—Cayuga, Owasco, and Seneca—bid fair to be strong rivals for popular favor. Among the standard *Blacks*, Cumberland, Honeysweet, Plum Farmer, Kansas, and Gregg are probably most widely grown. Dundee, one of the New York Experiment Station's acquisitions, promises to equal if not surpass the best of these. About the only *Yellow* variety now carried by nurseries is Golden Queen, though perhaps Caroline may still be found in a few. Probably Columbian is the leading *Purple* fruited variety, though Shaffer and Royal Purple are still prominent.

Standard Blackberries include Eldorado Wilson, Agawam. Rathbun, Mercereau, Kittatinny, Early Harvest, Ancient Briton, Blowers, and Ward. The leading Dewberry is the old stand-by Lucretia, though in some parts of the country Mayes and McDonald are largely grown.

GETTING MORE PLANTS

Red Raspberries and Blackberries may be made to produce abundance of new plants by thrusting a spade full depth of the blade in the ground about two feet away from the established plants. This cuts the roots which soon send up new shoots. If the operation is performed in early spring the new plants may be transplanted anytime after midsummer, or they may be left until the following spring.

Dewberries, and Black and Purple Raspberries develop their new plants during late summer and autumn from the tips of shoots that started to grow in the spring. As the time for such development approaches the canes bend over and thicken at their tips. They may then be pegged down to prevent the wind shifting them. Soon after the tips have rooted other buds near the ends may develop shoots which also take root and in due time form plants. Often two to half a dozen or even more plants will develop from each original shoot.

As these new plants must be planted shallow it is advisable to postpone transplanting until spring. When planted in the autunm they may be heaved out of the ground by the alternate freezing and thawing and killed during winter. Once established they rarely suffer from this cause.

The canes of Raspberries, Blackberries and Dewberries, even those of well established plants, are sometimes winterkilled more or less. Rarely are the roots so affected. In many cases this killing is due to feeding the plants too liberally with nitrogenous fertilizer during the latter half of the season, thus inducing a rank growth which fails to mature before winter sets in. In other cases it is due to dry weather during the previous summer. The result is that the stems are insufficiently nourished and hence lack stamina to withstand Jack Frost. Obviously the feeding of the plants should therefore be done in the spring, or at latest in early June.

At that time, if not earlier, it is a good plan to cease cultivation except to maintain a very shallow layer of loose surface soil to serve as a *(continued on page 78)*

The second year after planting—well framed and comfortably set among trees and flowering plants in the borders. All contained on a 150 x 200 foot plot. Dogwood in flower (above)

As it was in the beginning, before the planter came and wrought the transformation. Just an ordinary suburban house with the conventional setback from the side walk (left)

HOW PLANTING 'MAKES' THE HOME

(on a 150 x 200 ft. lot)

MISS ROSE STAHL'S HOUSE

at Bayside, Long Island, N. Y.

Photographs by courtesy of the Flushing Nurseries Co., Inc.

The vista from the back of the house to the rear boundary has a well defined terminus which draws the eye and creates an illusion of more distance

Border planting for flower effect. Spirea and other shrubs in the rear on boundary. Irises in foreground with Peonies massed just behind

You can hardly believe that this view across the front porch exists on so small a space. Use is made of the arched trellis to get the illusion of distance

The Dogwood in flower shows the relationship of this corner to the general view above. The evergreen on the right fills up the gap in space in the angle

That a man desires simplicity and absence of all fussiness or useless articles in his room is clearly shown in the bedroom designed by J. Y. Rippin for his own home at Ossining, N. Y.

Where a room must serve the dual purpose of bedroom and sitting room, nothing adds greater friendliness than a fireplace around which may be grouped easy chair, desk and card table

Comfort for the Man At Home

Let the room really reflect its owner—don't squeeze out hobbies and hammers with feminine furbelows

ESTELLE H. RIES

IT IS time to provide for the provider! In homes where a man is the bread-winner and source of supply, it would seem just and fitting that at least one room be reserved for his personal use, furnished to please him and satsify his own ideas of what he wants. We know that in most homes to-day, such a retreat is unusual. While we expect our men to do their part toward home upkeep, their customary reward is but half a bed, part of a closet, and barely a corner to call their own. Just what is it, in these circumstances, for which they are grinding away daily, expending time and effort?

The fact that the man of the house is so much away from home has, I suppose, created the custom of woman's domination of all the furnishings. Even in bedrooms shared by man and wife, the feminine touches are almost always uppermost. So then in the cause of justice, let us consider this subject of decoration from the man's point of view.

No man's room is complete without a small table ready to bring out for cards, reading lamp, pipes or books

Rooms shared by man and wife do present a problem, but unquestionably they should be planned with decent consideration for 'fifty per cent. of the inhabitants.' Comforts should be duplicated. As far as possible, let the double room be, if not actually double in size, at least large enough for the man to have his own easy chair, his own closet or chifforobe and similar essentials. Keep the colors not too delicately feminine, cheerful rather than faint-hearted. Fragile materials in curtains, cushions, lamp shades and similar accessories should yield to those that have more substantial qualities. And if there are color preferences equally decided in both man and woman, with a little skill and the right spirit, both may be used harmoniously. Compromise is a virtue not to be lost sight of.

A narrow book trough that may be drawn close to chair or bedside brings joy to a man's heart. Photographs above, right and left by courtesy of R. H. Macy & Co.

Furniture for husband and wife should be so grouped in the shared room that the man and woman will not cross and recross each other in dressing, getting in each other's way in repeated collisions. Place her dressing table on her side of the room, his

(cont'd on page 96)

Even a nest of tables is not out of place in a man's room, particularly if it is both a den and sleeping room

The Woman's Room of To-day

ELLEN D. WANGNER

IF THERE be one room where more than in any other place in the house there has been a change, it is in the sleeping room of the modern woman. Gone are the blues and pinks of another day, the fussiness and furbelows that once marked her place of rest.

To-day she is quite apt to have shoved the pendulum of bedroom decoration so far that her room is almost bare and austere. She may in her search for the simplicity that is the keynote of the average modern home turn to bare floors and barer dressing tables, and even take down the pictures from her walls and have nothing about her that might by any chance catch dust or a stray mote. And there is about such nun-like rooms a sense of space and cleanliness that is refreshing.

This is the farthest swing of the pendulum, however; in most homes it stops short of that and we find what might be called a 'typical bedroom'—comfort and coziness plus space and cleanliness. And we find luxury, too—the luxury based on well made, carefully selected furniture, durable rugs, beautiful bed fittings, lamps for reading in bed or beside the fireplace. We find frilly curtains at the windows to give the friendly look that such windows should have—but we will find these same curtains, while feminine to the last ruffle, indeed typical of modern femininity, for they are of usable, durable sunfast, rub-fast materials. And therein lies the proof of the old saying that a woman's room is an index to her character, for the modern woman, while definitely and distinctly feminine, is equally definitely and distinctly practical.

There is more in this than just the vagaries of fashion or the passing of some decorative era. Life is expressed in these rooms. The modern woman is no longer literally housed within her four walls. She has found that the word 'home' means no longer merely the walls of her house. The modern definition of this word in terms of action carries her out into the highways of life. She has found that 'home' means the civic conditions that hedge her family. It means the school and its healthful conditions for her children. Home means pure milk and good water and civic cleanliness and health and disease prevention; and to meet these demands on her mind and strength she has had to make of her home, of her very room, a place that will demand the least of her in the way of cleaning and care. (*continued on page 88*)

The dark wood trim and parchment colored walls contrast with the gay black and orange motifs of the tan linen curtains and coverlet

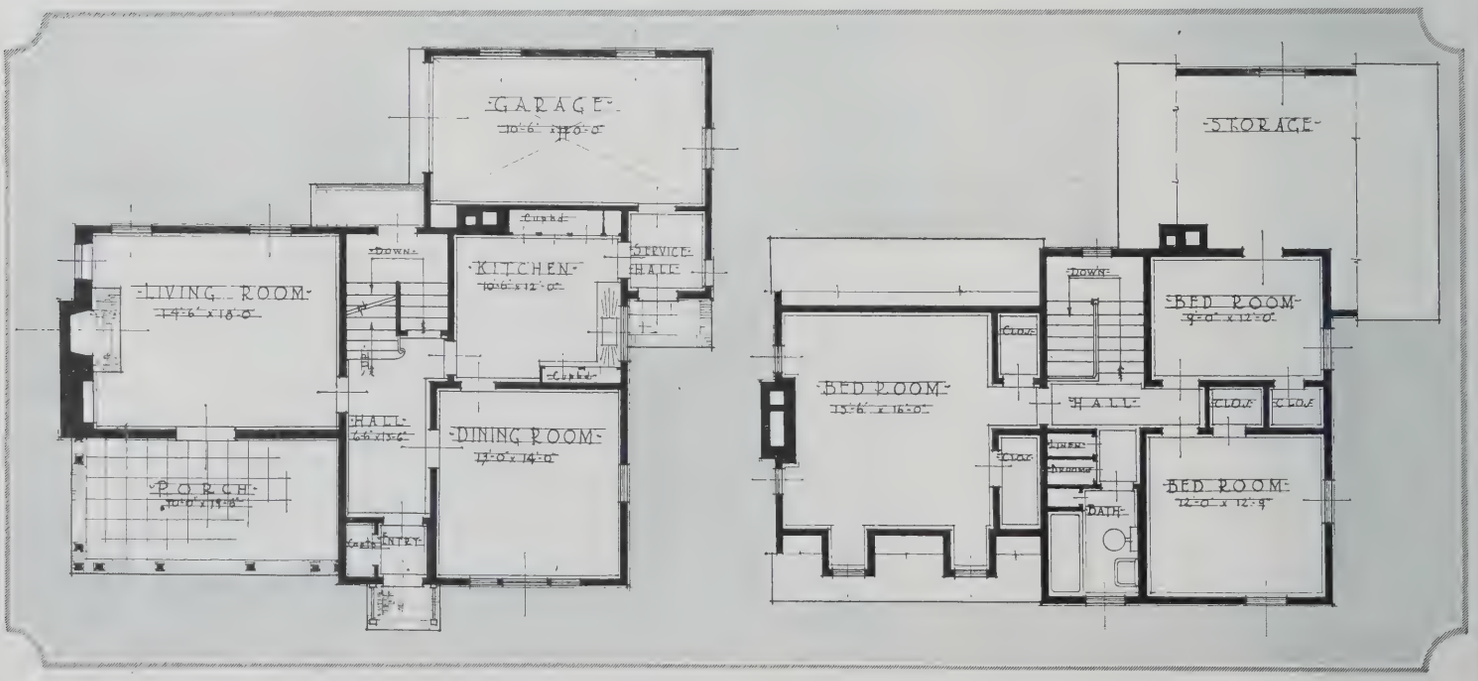
Narrow molding painted like the walls lends the fine decorative note of paneling, making an effective background for the furnishings

Walls of salmon pink, upholstery in figured and plain print in blue, green and beige, bring color and life to this rather simple room

Rooms by Ethel A. Reeve, Decorator

TWO PRACTICAL SMALL HOUSES OF PLEASANT MIEN

The distinctions between the good and bad in architecture, as in many other things, are sometimes very subtle but nevertheless very evident too. Many a person who has no technical knowledge or special training at once senses the difference and most of us respond to beauty when we find it about. It would be hard to point out specific reasons why these two small houses are refreshingly better than average—it is not merely that they are 'not like everybody else's' but perhaps rather because a simple plan has been de-



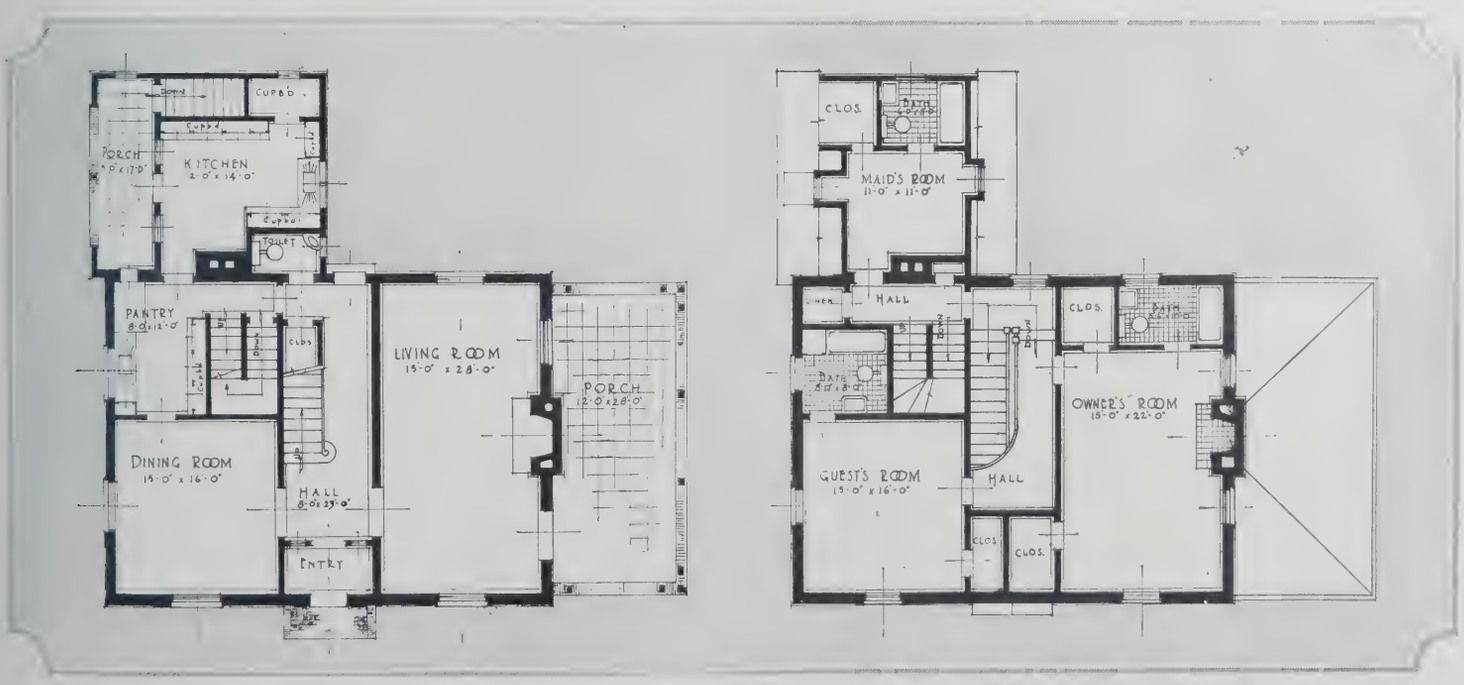
veloped in a straightforward and understanding way with an eye to the effect of simple well-placed detail. Prospective owners will here find a diverting divergence from the ordinary six-room dwelling, and in studying these plans it will be noticed that the clapboard house has garage attached and that the above view of the brick house was taken from the side. Mr. Frank B. Rathbun's residence is shown on the left-hand page and Mr. W. Clarke Bagg's above

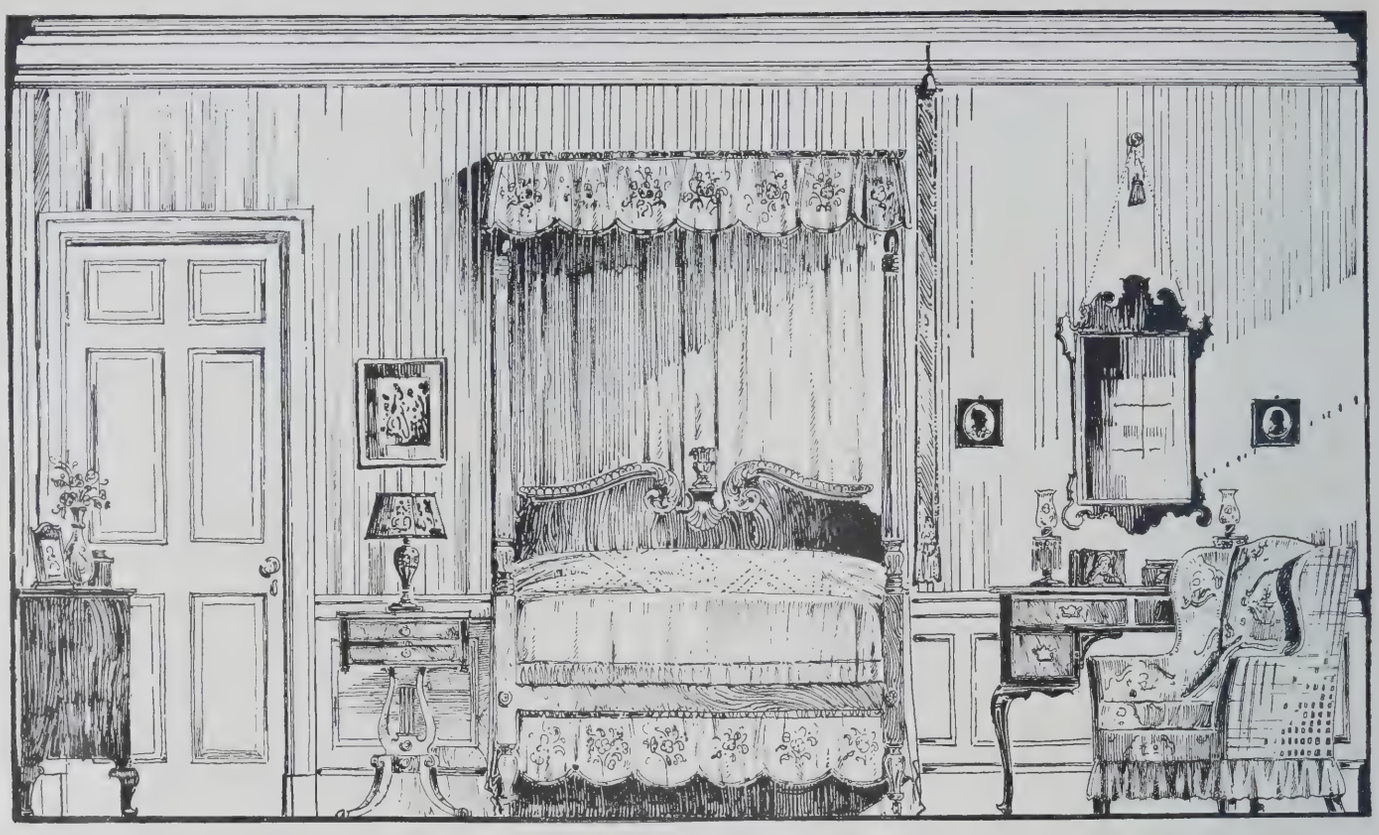
BAGG & NEWKIRK

Architects

PHOTOGRAPHS BY

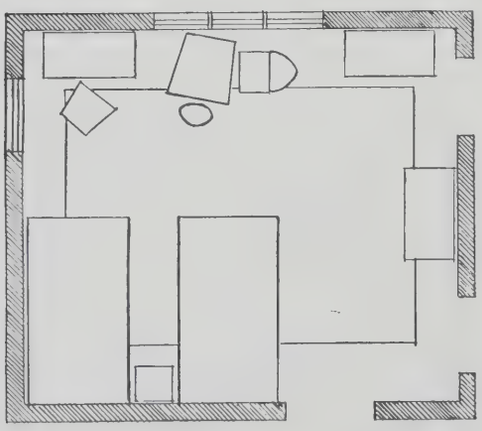
RICHARD SOUTHALL GRANT

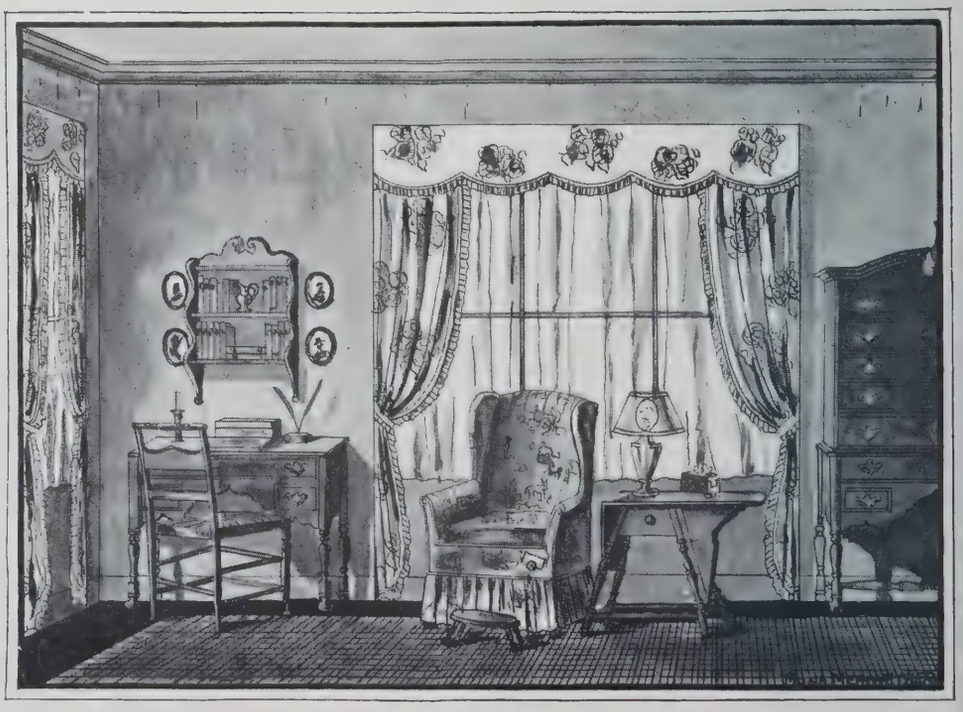




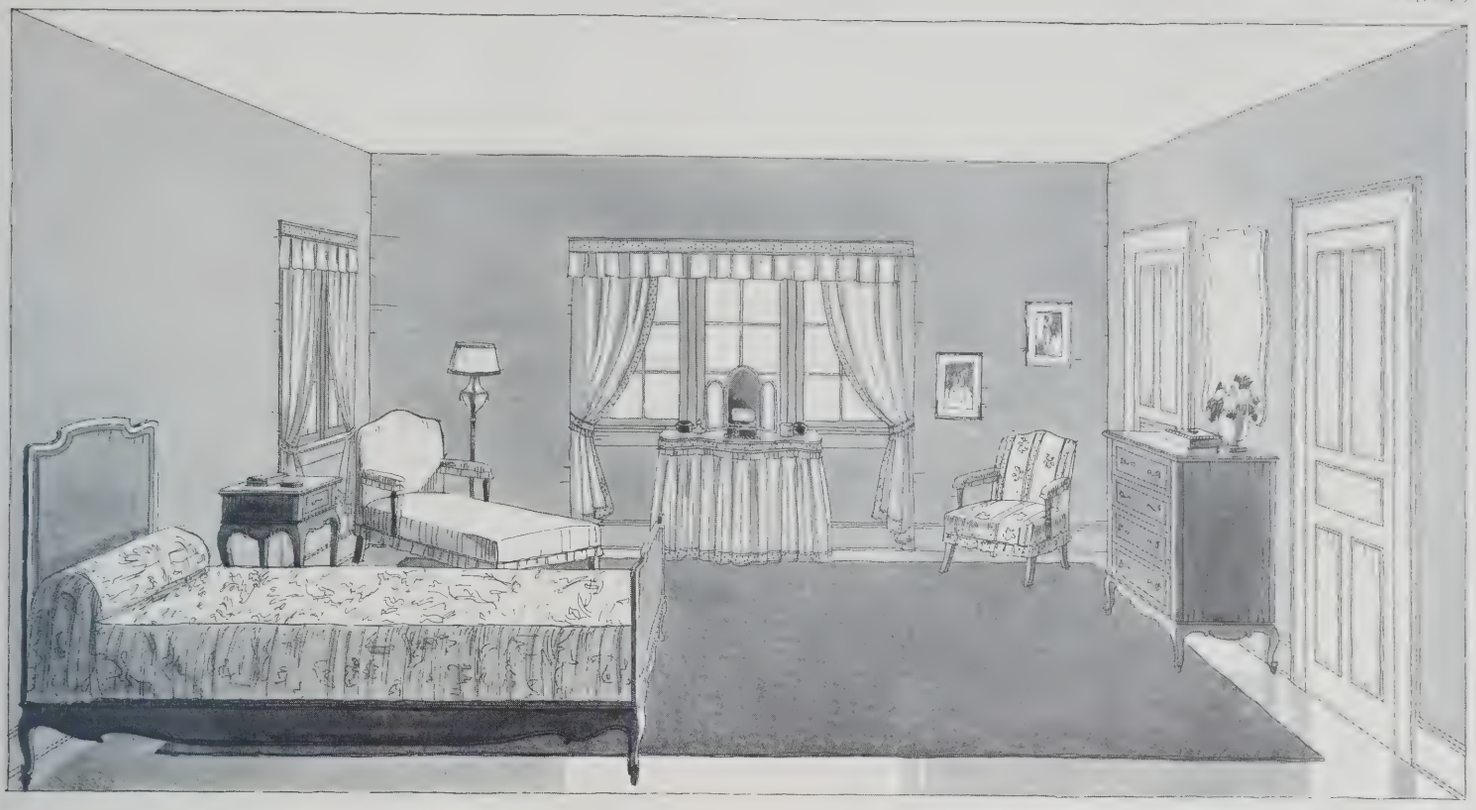
In designing this bedroom B. Altman & Company make it a composite room in the spirit of the early 18th century. The bed is of the well-known draped tester type in mahogany, an authentic reproduction of a genuine old piece. As in those old-time rooms, the bed occupies the place of importance with the other furniture grouped near by. In this plan the windows have been left unobstructed so that reading chair or tea-table may be easily placed near them

Lord & Taylor have put into the room below the very spirit of a real American home. Here is Early American furniture in maple, each piece a copy of old furniture used in the American Colonies. In this room there are twin beds with table and night light between

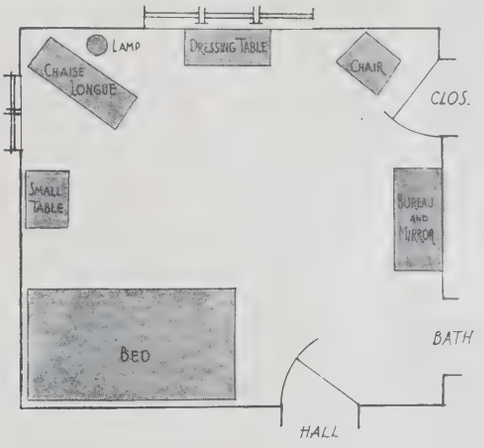




The beds are placed in the corner along the hall wall (see furnishing plan above), to leave the windows free for the friendly grouping shown of wing chair, butterfly table, desk and hanging shelves that bespeak comfort



Arnold, Constable & Company, in decorating the room above, chose furniture which is a modified reproduction of a French Provincial type in a dull finished walnut. In this plan the bed was placed in the corner to leave as much open floor space as possible. By this arrangement the windows were left free to afford abundance of light at the dressing table as well as for the chaise longue which also has a table with lamp on the other side



THREE SOLUTIONS OF THE SAME PROBLEM

A Bedroom for the Suburban Home

As planned by Lord & Taylor, B. Altman & Co., Arnold Constable & Co.

IN PLANNING the furniture and fittings of this room, the decorative departments of these three New York stores had many points to consider. First, the room had a south and east exposure and was only 14 x 16 feet.

With this exposure, Arnold, Constable & Company chose blue taffeta for the draw curtains and dressing table, bordering these with a narrow strip of the Queen Anne print used on the large chair. The valances are of red glazed chintz with a heading striped with a narrow band of the print which also makes the tie-backs and borders the dressing table. The bedspread is of blue and white toile—its only trimming a narrow cording of the red glazed chintz which also covers the chaise longue. The rug shades from a light blue center to dark blue border, with the walls and marquisette glass curtains of a light cream.

B. Altman & Company chose for this room a color scheme of rose, blue and tan, using these colors in glazed chintz for the bed tester and valance, for curtains and upholstery. The bedspread is an old candlewick spread in natural color that contrasts pleasingly with the rich colors of the mahogany bed and the gay chintz. The furniture makes a composite picture of the types used for so long in post Colonial days in America. The bed is of Hepplewhite inspiration, the night table a copy of a Duncan Phyfe lyre table. The bureau is a replica of the old well known Salem chest, while the dressing table, chair and mirror show the Queen Anne influence. Interesting indeed is this chair that has the sides and back done in gingham, chintz covering on arms and seat. An antique glass oil lamp, Currier and Ives prints, and hooked rugs make of this room a delightful picture.

To cover the walls of the room planned by Lord & Taylor, turquoise blue paint (with either flat or glazed finish) was chosen. All the furniture is of maple with broken pediment tops, turned legs and stretches, and clearly defined aprons making for an harmonious treatment throughout. The rug selected is a basket weave Scotch art rug, easy to handle. This rug is of two shades of the blue, contrasting well with the wall and the glass curtains of light yellow organdie, edged with a two inch knife plaited ruffling of turquoise blue glazed chintz. The semi-glazed chintz used in the draperies is particularly charming with its light background and blue, yellow and pink roses. These are unlined and piped with yellow. The bedspreads are modern reproductions of Colonial coverlets in a rose orchid matching the flower in the chintz, their design being a copy of the well known Deerfield looms. Lamps of pewter, Sandwich glass and toile figured pottery with parchment shades complete this extremely attractive room.

Tying Your House and Its Grounds Together

The third of a series on planning, designing, and building of dwelling and garden as a unit from start to finish

L. W. BRIGGS, Landscape Architect and J. F. YEWELL, Architect

THE development of the building and its setting as an integral unit, not only of artistic composition but for logical relationship, is a principle that was recognized and applied by the early Egyptians. Yet it comes to us as something new to-day. Several earnest workers have dug up the idea while novelty seekers have been fanning the air with radical changes in design. This new-old principle means for the home builder the simultaneous planning of the house and its grounds. So successful have been the results of collaboration between the architect and landscape architect, that it is rapidly becoming customary to engage the services of both at the very beginning of a project. Not only does this coöperation achieve a greater measure of beauty and convenience, but it actually effects substantial savings in construction.

One of the very first matters considered when building a home is the locating of the house and the garage. How can this be done intelligently without some knowledge of the way the grounds will be arranged? We may easily put the house just where it will prevent our having any sort of a satisfactory garden, or the garage may be placed to block a fine view. These possible mistakes are not imaginations. We have seen both made.

How the positions of the buildings may affect the development of a piece of land is given in figures 1 and 2. The first drawing shows a very usual faulty location of house and garage on an average lot. There is an excessive setback from the front property line, and a long trip to the garage. With increasing appreciation of gardens and the pleasures of living more out-of-doors, a greater importance goes to that part of the property that is *away* from the street, with its privacy and protection from noise and dust. In the days when one of the favorite 'outdoor sports' was seeing the world from the front porch, the lawn between the house and the highway was both ample and dressy. The rest was often just 'backyard.' Now the yard in the rear is fast becoming flower garden or well kept play space. It follows then that one of the most important objects in placing the house is to secure the greatest amount of land which can be developed into secluded areas. From this point of view the position of the house in figure 2 is ideal with a maximum area for private pleasure ground. The lawn in front has been reduced to a minimum, enough being left to provide a good setting for the average small house, and the service portion is only as large as is absolutely necessary. When you think of the cost of your land per square foot, does it not seem wise to plan carefully, so that all of it may be put to the best possible use?

There are other considerations in determining the location of the house, and frequently the position finally chosen is the result of an adjustment between several of them. A number of these factors enter into the choice of the land, and were discussed in the first article of this series. The exposure of the rooms is of great importance. And often it is desirable to take advantage of certain natural characteristics of the site, as a rise in the ground, a fine tree, or group of trees; or some feature such as an especially good view. If the house is already planned then its interior arrangement comes into the problem, for the outdoor and indoor living rooms should be attractively related.

Compare the placing of the garage on the two lots illustrated. In figure 1 it is most inconvenient, especially when the weather is stormy, and in addition the owner is put to the expense of a lengthy drive. In figure 2 the garage is easily accessible, there is a smaller area of roadway (quite an item these days), the extra space being released for garden or lawn. The garage may be incorporated with the house, which may make for more convenience and economy of construction, but this requires clever designing if the result is to be pleasing.

Not only are the distances from the property lines to be considered in placing the buildings, but also the height at which the buildings are set above ground. We are all well acquainted with the house that 'sticks up in the air.' In most cases the most skilful subsequent planting will not 'bring it down' so that it appears to rest comfortably on its site. Buildings perched on hillsides present especially difficult problems and usually involve considerable grading with high retaining walls in order to unite them successfully with their surroundings.

Terracing is the very best way of bringing the house and the grounds together. The terrace, level and formal in outline, but softened with planting and open to the sky, combines within itself something of both the spirit of architecture and of nature's setting. Frequently it is possible to bring out more emphatically this connection by repeating in its design materials or motifs also found in the building, such as stone or brick and the bond used in the walls. Besides effecting a transition, the terrace provides a base for the structure, and the resulting line imparts a sense of stability and logical growth.

From a practical point of view it is desirable to elevate the house as much as we can. Less excavation is required and cellar windows will receive more light. Correct terracing will usually allow the foundation walls to be brought quite a distance above the natural grade without making the building look too far out of the ground. In addition, the terrace furnishes a convenient place to dispose of the excavation material and so eliminates cost of removal. A typical situation is illustrated in figure 3. The foundation has been raised as far as possible without making the terrace too high. Excavated material forms the terrace in front and in the rear the basement windows are above ground. The drawing shows a slight slope toward the house, which is a rather unfortunate drainage condition, but the terrace gives protection against any flow of surface water.

Figures 4 and 5 show quite steep hillsides. These call for much more grading and fairly high retaining walls. Areas approximately level, but with a slight pitch away from the house to carry off the rain, are constructed in front and at the back. On the down-hill side we have what is a true terrace, existing chiefly for appearances and use as overlook, but where the slope is toward the building, the space cut into the bank, which, strictly speaking, is not a terrace, although performing many of its functions, serves mainly as a protection against the flow of melting snow or rain. In addition to the aesthetic and engineering value of these two graded areas they furnish very pleasant spots for sitting out-of-doors, especially if there is an awning or tree to cast a cool shadow.

'Give me a rule for the size of a terrace,' says the amateur. If houses followed a set pattern and lots were all alike, then we could have a fixed rule for its size and shape. Sometimes a proportional relation between the width of the terrace and the height of the (*continued on page 101*)

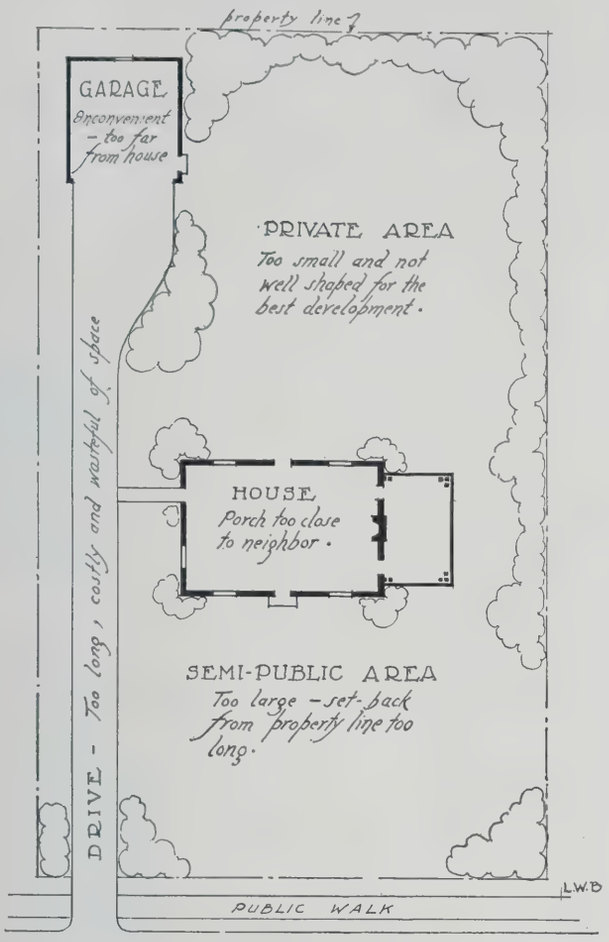

property line
GARAGE
Inconvenient - too far from house
PRIVATE AREA
Too small and not well shaped for the best development.
HOUSE
Porch too close to neighbor.
SEMI-PUBLIC AREA
Too large - set-back from property line too long.
DRIVE - Too long, costly and wasteful of space
LW.B
PUBLIC WALK

Fig. 1

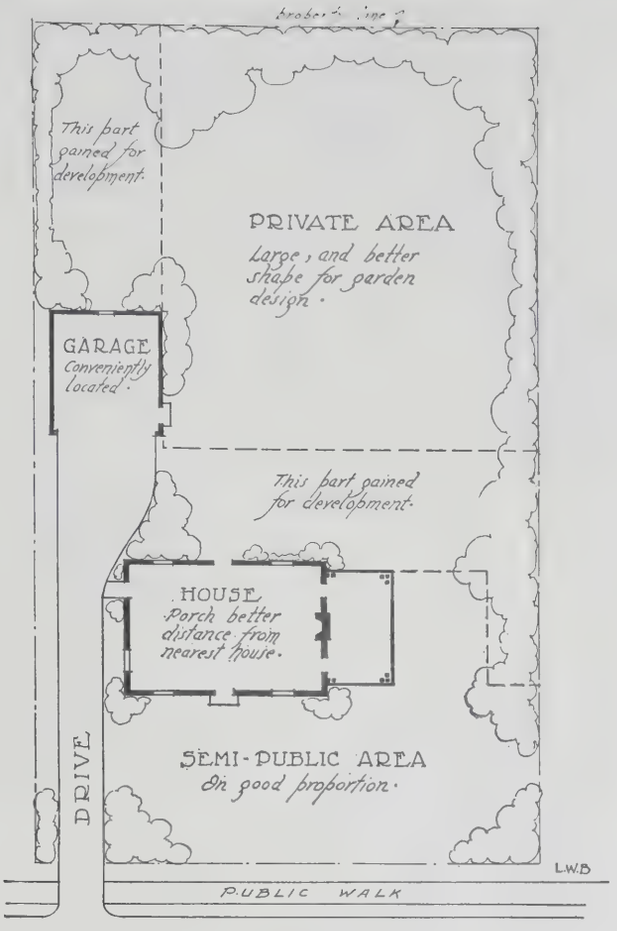
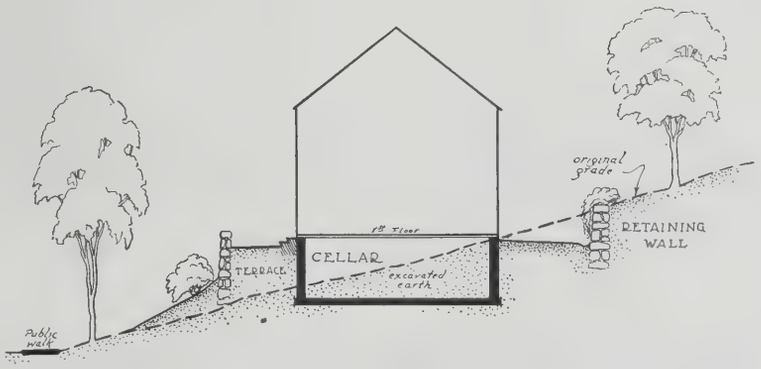


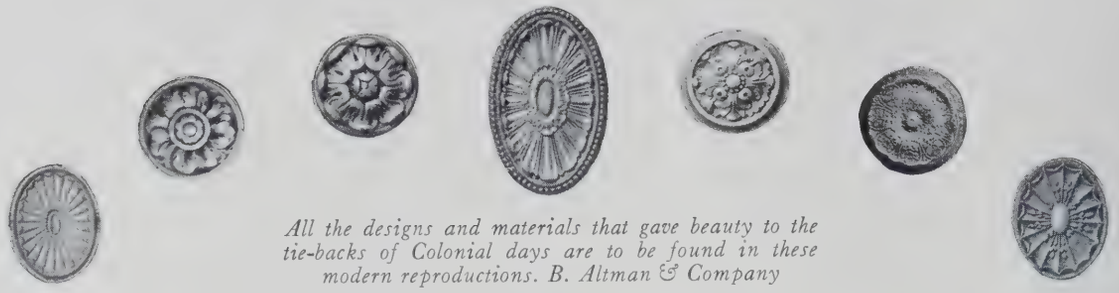
Fig. 2

This disposition of the buildings, while very common, is wasteful. The setback from the property line is excessive and too much area sacrificed to mere driveway



The ideal placing of the house and garage on a plot of this area and dimensions. Much space is gained for the private pleasure area and the garage is more conveniently located too

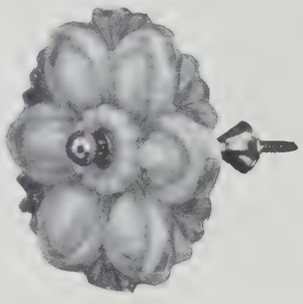
Terracing is a device for bringing together the house and sloping ground, giving a level for the building to rest on. The proportions vary according to circumstances. The excavation necessary for the cellar provides material that may be used



All the designs and materials that gave beauty to the tie-backs of Colonial days are to be found in these modern reproductions. B. Altman & Company

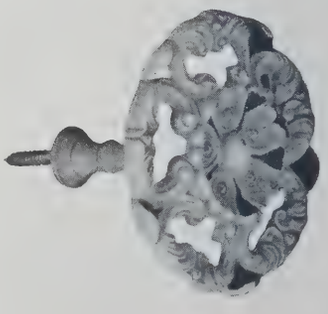
CURTAIN FIXTURES AND FITTINGS

New Tie-backs, Cornices, and Shades

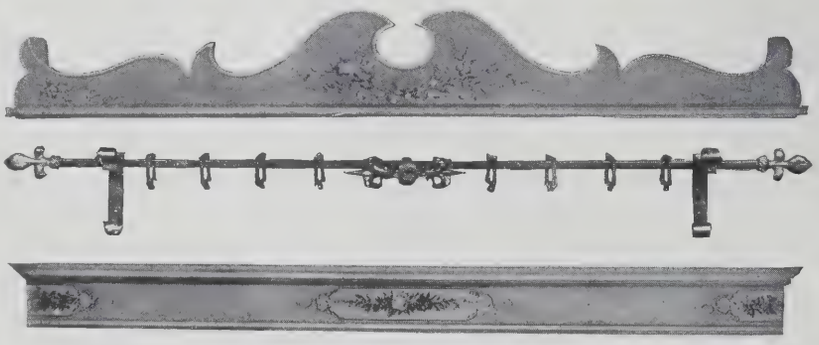


Made of opalescent glass large tie-backs give the final touch to a softly draped curtain, this design being unusually lovely

The colorful shade of glazed chintz and the tie-backs left and right are from John Wanamaker

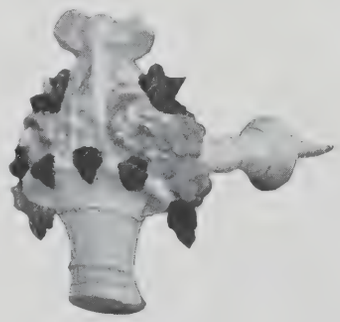


A faithful copy of an old tie-back, this glass rosette may be used appropriately with any material and in any room



Whether in the simplest room or over costly window hangings, the cornice is always a decorative finish. B. Altman & Company

The new out-swinging curtain poles and rings (center cut above) are more than merely utilitarian. John Wanamaker



For the bedroom there are tie-backs in gay-colored pottery, showing both individual flowers and flower baskets such as this. John Wanamaker

THE modern window has ceased to be merely an opening in the wall for light and ventilation. It has become instead one of the most important of decorative features. Its curtains and fixtures can bring cheer and color to dark rooms, can make the small room appear larger, and seemingly diminish the too large room. They can apparently raise and lower ceilings; tie the colors of the room together; bring, in fact, harmony to what might otherwise have seemed decorative discord.

If one wishes a curtain fixture of extreme delicacy and grace of design, there are fruit and flower tie-backs of metal. J. A. Lehman

Thinking Now for Fall Flowers

Don't crowd the early spring effect too much if you want an all-season garden

ELIZABETH LEONARD STRANG

PEOPLE frequently say to me: 'My garden is always beautiful until July, but I want you to fix it so that it will be lovely all the time.' It needs forethought at spring planting time if we are to have abundance of bloom at the other end of the year. One should begin, so I have come to believe, by putting in their appointed places the plants for fall effect, as otherwise, before the season is half gone through, the beds are almost full, and the space for autumn flowers is skimped.

We are too apt to think that a few Hardy Asters will 'fix it for late bloom.' Theoretically, to be sure, they take up comparatively little floor space in the early part of the summer, and their spreading tops may be staked to cover a large area when in bloom. Nevertheless, last year I was made painfully aware that the theory had fallen down hard. One reason was that poor and weedy varieties had been planted—and besides not enough room was allowed.

At least three more points are for consideration; first, the bringing in of the background to the autumn picture; second, the selection of more and better kinds of fall blooming perennials; and third, the use of annuals, not as fillers but to fit in with the best principles of design.

If people go away for the summer there is more space left for the autumn planting, yet it is not impossible to have an effective all-season garden.

Bridge that barren time after the passing of the Roses and Larkspur with well-placed clumps of late Lemon-lily, early white Phlox Miss Lingard or pink Enchantress, and the dainty blue Veronica spicata. It is also easy in August to have a panorama of colorful Phloxes, or failing this an orange and blue combination of Tiger Lilies, early Monkshood (Aconitum napellus) Platycodons, and Harebells, but all the time we must be mindful of the autumn.

I find that Japanese Anemones and Chrysanthemums cannot be sprinkled into the perennial borders in the usual 'spot-repeat' manner, which means that we repeat a small spot of a given flower many times throughout the garden, so that in its season that one flower seems be everywhere. Anemones are hard to establish, particularly if small pot cuttings are sent instead of old field-grown roots. A long drift of the pink and white beauties in combination with the lavender-pink Boltonia latisquama is a sight worth while, but in general they do best by themselves, massed in the shelter of an arbor.

As for Chrysanthemums, sometimes I am tempted to treat them frankly as annuals. If they survive the winter at all, their tender shoots are nipped by April winds, and often a killing frost arrives before they bloom. They resent the contiguity of other plants and thrive best in a sheltered sunny bed, preferably against a wall, where a light framework may be erected, to be covered with burlap on frosty nights. Thus two of the standard fall plants are disposed of.

Of the Hardy Asters, oft repeated clumps at the back of the border may be staked to fall forward when in bloom and thus fill a larger area than in early summer, but it is vitally important that we use only the best. Follows a list of these that have pleased me:

Climax; clear light blue, 4–5′ medium size flower, yellow eye.

Blue Gem; deep dark blue 2–3′, very large florets.

Grey Lady; 3′ opal gray, similar to Blue Gem in habit but earlier.

Lady Lloyd, 3′ clear rose pink, a better color than—

St. Egwyn; light pink, and bushy form but smaller flowers.

Mrs. F. W. Raynor; 4′, erect, vivid magenta pink, like novae angliae rosea.

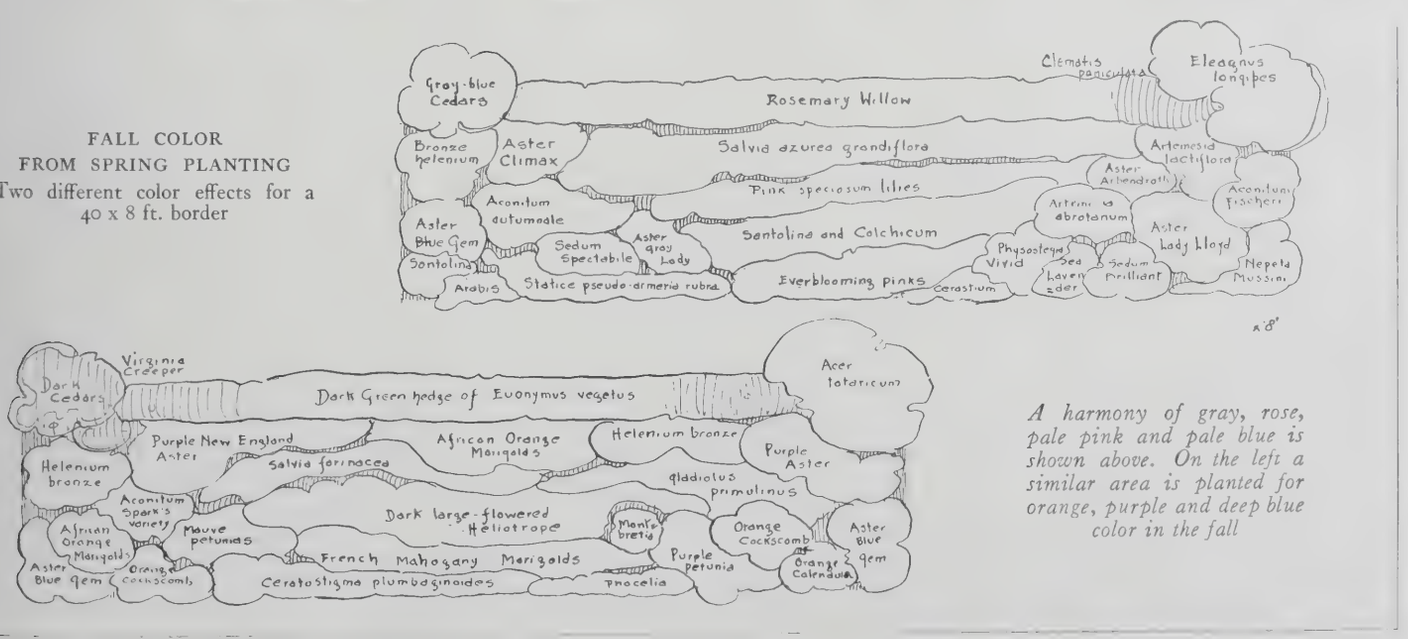
Peggy Ballard; 2–3′, large sprays of double clear rosy mauve.

King George, 2′ extra large bluish violet, August–September.

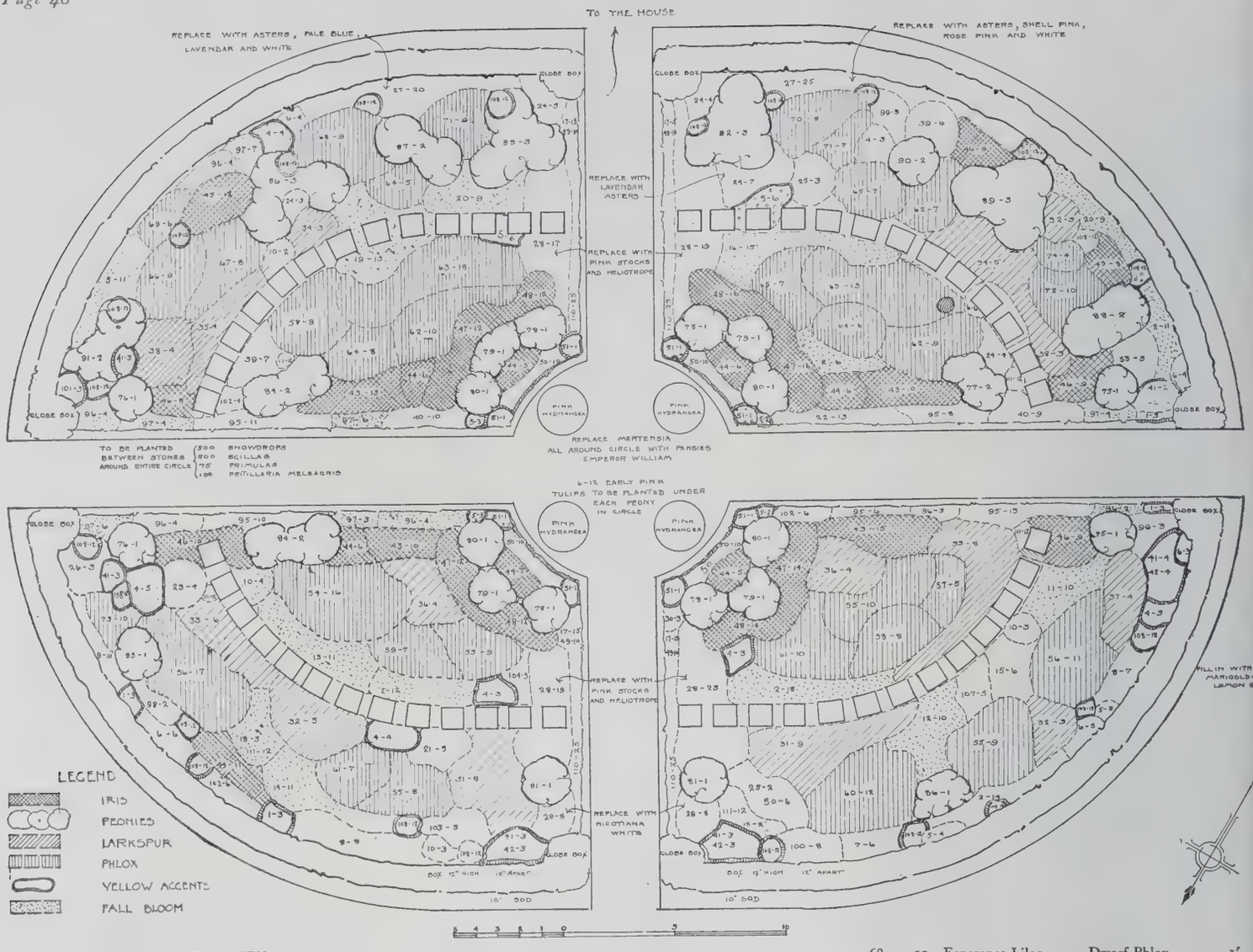
Boltonias increase too rapidly and are too large and coarse for the small garden, but are most effective in great masses at a distance, particularly the white B. asteroides. The pink one, B. latisquama may be pinched back to make it low and bushy, and it has a dwarf variety.

Likewise, though (*continued on page 88*)

FALL COLOR
FROM SPRING PLANTING
Two different color effects for a 40 x 8 ft. border



A harmony of gray, rose, pale pink and pale blue is shown above. On the left a similar area is planted for orange, purple and deep blue color in the fall



PLANTING KEY

Index	Quantity	Name		Distance Apart
1	12	Adonis vernalis	Oxeye	6″
2	55	Anemone japonica	white Japan Anemone	8″
3	55	" " rosea	pink Anemone	8″
4	21	Anthemis tinctoria	Chamomile	1′
5	23	Alyssum saxatile	Goldtuft	6″
6	24	Arabis albida	White Rockcress	6″
7	6	Aquilegia chrysantha	Columbine	1′
8	15	" hybrids	"	1′
		" caerulea	"	1′
		" californica		1′
9	10	Ajuga genevensis	Bugle	6″
10	12	Achillea ptarmica	Pearl Achillea	1′
11	10	Aster Airship	Hardy Aster	1′
12	10	Lorenz	" "	1′
13	11	Evening Star	" "	1′
14	12	cordifolius magnificus	" "	1′
15	6	Gorgeous	" "	1′
16	15	Grandiflorus	" "	1′
17	60	Bellis perennis	English Daisy	4″
18	5	Bocconia cordata	Plume-poppy	2′
19	15	Chrysanthemum Tall White	Hardy Chrysanthemum	1′
20	10	Yellow Button	Hardy Chrysanthemum	1′
21	5	uliginosum	Daisy	1′
22	10	Campanula carpatica	Carpathian Harebell	6″
23	5	Campanula persicifolia alba	Peach-leaved Harebell	1′
24	25	Digitalis gloxinaeflora	Foxglove	8″
25	5	Dicentra spectabilis	Bleeding-heart	18″
26	3	Dictamnus fraxinella	Gas-plant	18″
27	45	Dianthus barbatus	Sweet William	8″
28	78	Newport Pink	" "	8″
29	16	Red	" "	8″
30	3	Plumarius	Scotch Pink	6″
		Delphinium	*Larkspur*	
31	17	King of Delphiniums	Larkspur	18″
32	8	formosum	"	18″
33	14	Queen Wilhelmina	"	18″
34	12	belladonna	"	18″
35	4	Farquhar's Hybrids	"	18″
36	8	True Blue	"	18″
37	4	Lize	"	18″
38	3	belladonna hybrids	"	18″
39	13	Gypsophila paniculata	Baby's Breath	1′
40	14	Geranium sanguineum album	Crane's Bill	8″
41	18	Hemerocallis flava	Lemon Daylily	1½′
42	12	" thunbergi	" "	1′
		Iris-German	*German Iris*	
43	48	Queen of May	Pink	8″
44	51	Purple King	Purple	8″
45	12	Madame Chereau	Blue & White	8″
46	45	Pallida	Lavender	8″
		Iris-Japanese	*Iris-Japanese*	
47	54	Farr's No. 13	White	6″
48	54	Farquhar's	Violet Purple	6″
49	40	Myosotis palustris semperflorens	Forget-me-not	6″
50	46	Mertensia virginiana	Bluebells	6″
51	8	Oenothera missouriensis	Missouri Primrose	1′
52	3	Oenothera youngi	Sundrops	1′
53	3	Osmunda cinnamomea	Cinnamon Fern	2′
		Phlox	*Hardy Phlox*	
54	20	Henry Murger	White, Red Eye	1′
55	40	Miss Lingard	Early White	1′
56	30	R. P. Struthers	Coral	1′
57	5	Mont Blanc	White	1′
58	20	Elizabeth Campbell	Pink	1′
59	10	Frau Antoine Buchner	White	1′
60	12	James Bennett	Coral	1′
61	20	Independence	White	1′
62	25	Pink Beauty	Pink	1′
63	30	Crepuscule	Lavender	1′
64	20	Montagnard	Purple	1′
65	15	Dawn	Pale Pink	1′
66	10	Evenement	Pink	1′
67	10	Mme. Paul Dutrie	Orchid	1′
68	10	Esperence Lilac	Dwarf Phlox	1′
69	6	Tapis Blanc	White	1′
70	10	Champion	White, Red Eye	1′
71	15	Mercie	Lavender	1′
72	10	Helena Vacaresco	White	1′
73	10	Albatre	White	1′
74	5	Ornament	Rose	1′
		Paeonia	*Peony*	
75	2	Tree, Single Pink	Tree Peony	3′
76	2	" " White	" "	3′
77	2	Festiva Maxima	Early White	1½-2′
78	4	Celestial		1½-2′
79	4	Perfection	Lake Shell Pink	1½-2′
80	4	Duchess of Portland	Early Single Pink	1½-2′
81	2	Canari	Late Amber White	1½-2″
82	3	Rosy Dawn	Early Single Blush	1½-2′
83	2	White Lady	White	1½-2′
84	4	Edulis Superba	Early Pink	1½-2′
85	2	Virginie	Midseason Lilac Rose	1½-2′
86	4	Officinalis Alba Plena	Early White	1½-2′
87	2	Monsieur Chevreul	Late Violet Rose	1½-2′
88	2	Teniers		1½-2′
89	3	Agnes Mary Kelway	E'ly. Violet-Rose	1½-2′
90	2	Mme. Emile Galla	Late Pink	1½-2′
91	2	Mathilda Mechin		1½-2′
		Primula	*Primrose*	
92	25	Vulgaris	Common Primrose	6″
93	25	Polyantha	Polyanthus	6″
94	25	Japonica	Japanese Primrose	6″
95	50	Papaver nudicale	Iceland Poppy	6″
96	20	Statice latifolia	Sea-lavender	1′
97	35	Sedum spectabilis	Showy Sedum	6″
98	3	Spiraea aruncus	Spirea	1′
99	6	Spiraea japonica	False Goatbeard	18″
100	10	Saxifraga crassifolia	Saxifrage	8″
101	5	Trollius europaeus	Globe-flower	8″
102	10	Viola cornuta	Horned Violet	
103	5	Veronica longifolia subsessilis	Veronica	1′
		Bulbs		
104	3	Fritillaria imperialis	Crown Imperial	
105	100	Fritillaria meleagris	Guineahen Flower	
106	500	Galanthus nivalis	Snowdrop	
107	5	Lilium auratum	Goldbanded Lily	
108	276	Narcissus, Yellow	Narcissus	
109	500	Scilla sibirica	Siberian Squill	
110	244	Tulips Early	Tulips	
111	72	" Darwin	Darwin Tulips	

FLOWERS THROUGH THE YEAR

Planting scheme for a garden of herbaceous plants with bulbs to give continuous bloom, from spring to fall. The plot is about 55 × 40 ft. (in four divisions that could be adapted in parts to a very small garden), and is the garden of Mr. George Mabbett, Plymouth, Mass., designed by Mrs. E. L. Strang, L. A.

The pink Radiance has been voted the favorite Rose for all America. It is the culmination of a long line of popular varieties through Devoniensis, Mme. Caroline Testout, Liberty, and Lady Mary Fitzwilliam

Mrs. S. K. Rindge H.T. is in the coppery yellows and has the same ancestry in part as Radiance, directly from Rayon d' Or and Frau Karl Druschki. The reverse cross gave the tender yellowish H. P. Eugene Barbier

The Fascination of New Roses

There's always the chance of your finding something that just suits your own needs better than any Rose you know

J. H. NICOLAS

MUCH is said about the 'flood' of new Roses introduced from abroad every year; but I have yet to discover any valid argument for curtailing that output.

Many an invention that failed led to a further one, which is to-day a necessity; and many of those novelty Roses that went to the discard were used in breeding and produced outstanding top-notchers. The supreme law of the survival of the fittest takes care of the surplus introduction. That seeming over-abundance of novelties has its justification. The various societies and organizations of Europe promote and encourage the dissemination of *promising* seedlings.

Everyone knows that many of those seedlings will be disappointing, but for them Rose growing is a sport. A firm that does not regularly send out novelties is not in the front line. It is not expected that all these seedlings will become world beaters. Fashion changes in Roses as it does in wearing apparel, and the tastes are so variable that all new Roses find eager purchasers, although few are expected to stay long on the active list.

Some people complain that certain of the novelties are duplications of older existing varieties. They may be in the way that white enamel is a duplication of whitewash, both being white, but closer study will reveal some important variations in the form, shading of tones, petalage, endurance and frequency of bloom, fastness of color, foliage growth, or habit of the plant. To those among us who are still hanging on to old stand-bys, who conservatively leave well enough alone, these so-called duplications are most apparent. The connoisseur, the 'rosarian,' sees things differently and wants the slightest change or difference. The condition is different where color effects only are desired, as in a public park, or a large estate where Roses go by color rather than their individual characters. For these places a pink is a pink, be it Caroline Testout, Miss Cynthia Forde, or Mrs. W. C. Miller, and if Roses were used in such places only, I would be the first to advise the hybridist to close up shop and the nurserysmen to go ahead with their pet inclination to reduce their lists to a few varieties easy to propagate. We could then write 'Finis' on Rose progress.

At the shows of the National Rose Society of England the awards are made on cut blooms, more or less dressed and especially grown (*Continued on page 102*)

Healy

Huntington, L. I. At High Lindens, the residence of Mr. Harry G. Roulston. This rose garden in the new style is a self-contained unit quite apart from the more formal garden features which lie closer to the house. Beds of bush Roses, the beds being in grass and the whole enclosed in a frame of foliage which ties in with the evergreen planting at the far end and which encloses the flower garden. It has full exposure to light and is free from shade of overhanging trees and the Roses find a happy home

Hewitt

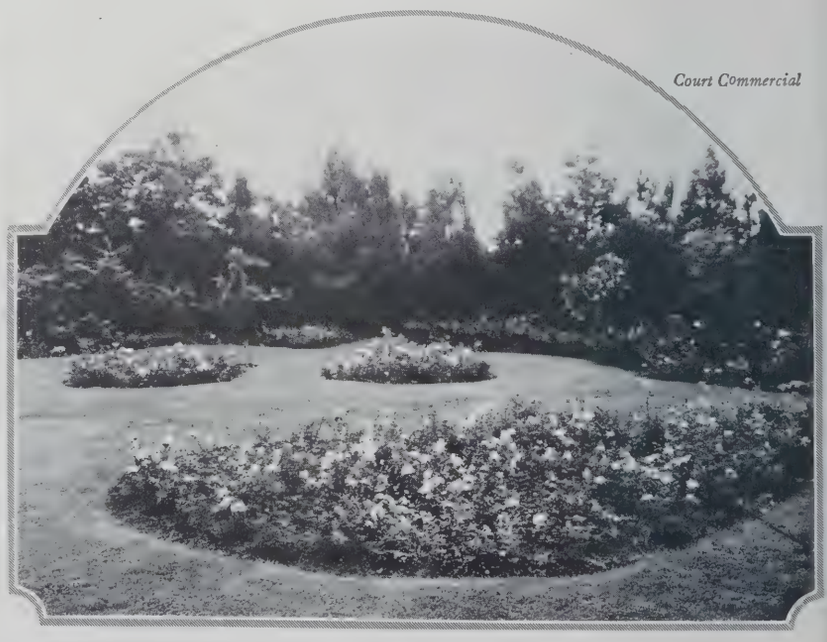
Pittsburgh, Pa. Residence of Mrs. Carrol P. Davies. One of the really old gardens of this section, planned by the elder Olmsted and maintained on original lines. Conventional beds of bush Roses, with standards is in the old manner

VARIED STYLES OF ROSE GARDENS

Garden City, L. I. Country Life Press gardens. An elastic style of rose garden with beds that can be enlarged or reduced according to circumstances without disturbing the general plan. Rose species in the marginal beds with Climbers on posts

Hewitt

Chestnut Hill, Pa. Garden of Mrs. Samuel Morris, where Roses have but a secondary interest and are used as flowering material incidentally in the general design. When they are out of bloom annuals and herbaceous perennial flowers take up the story and give color



Court Commercial

© Bachrach

Marblehead, Mass. Mrs. Harriet R. Foote, a successful designer of many famous rose gardens is here seen at home with her own collection of plants. They are closely planted in the approved modern garden manner

Bagby

Yorktown, Va. On the historic old Nelson place. A real Colonial garden as revived under the direction of Mr. Charles F. Gillette, L. A. The combination of brick and Box edging, the fountains and sundials all carry the note of age. On the arbor to the left are banksia and other tender Roses, while Hybrid Perpetuals dominate in the beds

SPEAK of a rose garden, and the mental picture aroused is a grouping of beds in conventional formality. That traditional garden had certain practical advantages in the olden days when Hybrid Perpetuals alone were to be had. Rose gardens out of bloom are not interesting, so a pattern was introduced to carry interest at other seasons. But things have changed. Rose beds nowadays can bloom all through summer and well into fall. The Rose is now interesting in itself. It can be used as a bedding plant even; although it does better alone. Some kind of enclosure where Roses are specially featured is desirable as otherwise the plants look weak. With a background of green foliage the colors are intensified. For the same reason grass as the ground-work is better than gravel. I, personally, like the informality of our Rose trial garden at the Country Life Press where beds can be expanded or reduced without interfering with a pattern.—L. B.

Serviceable indeed is this bedside tray: left on the low stand it becomes a table; and lifted over to the bed it may be used in comfort and security

Serving the Bedside Meal

Gay china, glassware, flowers and oddly shaped trays

FLORENCE BROBECK

Arranged by Margery Sill Wickware and Lucy D. Taylor, Decorators

A TOUR of the shops where trays, and the medley of tantalizing equipment for trays, are sold inspires in one a feeling to rush right home and resort to nineteenth century frailties. How sweet to pine away in an enchantingly modern boudoir where three times a day—or maybe four—a tray of sustaining goodness, sparkling with silver and glass and richly decked out in new china, is wafted up the stairs and on to one's couch or pillowy bed!

Alack! Twentieth century ways will not permit such frailties, but they do demand trays—trays for every hour of the day and night, large or small, severe or gay.

For grown-up trays, guest room color schemes may be matched in a hundred attractive breakfast sets. These sets, which are just the right size to comfortably fill a large rectangular tray, consist of two plates, cups and saucers, a covered toast dish, an egg cup, a cereal dish, a coffee pot, cream jug, sugar bowl and also a pot for tea and one for hot water. There are flowered patterns in old chintz effects; silvery white chinas edged with a chaste band of pale blue or orchid or rose, with all handles and knobs in the same color, and the tray painted to match. There are fine hand-painted titianware sets with colored borders and a plain white or cream background; other sets have all-over patterns both large and small. Some are severely formal gold-and-white effect, and there are sets which ought to be used in a modernistic room of gaily painted furniture flooded with sunshine, for they are of shining black porcelain painted in bright, old-fashioned flowers.

Such breakfast sets on painted, oblong wooden trays are ideal for guest room service. If more elaborate trays are in demand, there are fine black lacquered Chinese trays, with matching table either round or oblong; there are reed and glass trays designed to fit luxuriously over the knees of the sleepy guest, with a reed pocket at each end of the tray for the morning papers, mail, and a new book or two. This type of tray is also useful for serving in the sick room; the wicker may be painted any color, and underneath the glass the same color is repeated in flowered paper or chintz.

THE NATIONAL

Garden Association

TO PROMOTE THE ANNUAL OBSERVANCE OF NATIONAL GARDEN WEEK

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SOCIETY OF LITTLE GARDENS
ONTARIO HORTICULTURAL ASSOCIATION
AMERICAN IRIS SOCIETY
AMERICAN DAHLIA SOCIETY
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AMERICAN FORESTY ASSOCIATION
WILD FLOWER PRESERVATION SOCIETY

SO MANY inquiries have reached the National Garden Association for a list of foreign gardens open to visiting Americans, that it gives us great pleasure to be able to supply this information about one or two countries.

This month we list the gardens of Italy, this list being sent us through the courtesy of the Library for American Studies in Italy. To secure permission to visit these gardens one must become a member of this library located in Rome. The membership costs but a trifle and may be secured by writing to the President of the Committee on Gardens at the Library.

The Library issues to its garden members a personal ticket which must be shown on demand, since permission to visit these gardens is due solely to the courtesy of their owners.

Unless otherwise stated, the following gardens will be open every day.

ANCONA

Villa Bellini: Contrada S. Sabino, Via Flaminia, about 3 kms. from Osimo
Villa Mastai-Ferretti: Le Grazie, about 3 kms. from Senigallia
Villa Montegallo: Contrada Montegallo, about 7 kms. from Osimo
Villa Monte S. Pietro: Contrada Croce, Monte S. Pietro, about 3 kms. from Osimo

AQUILA

Villa Comunale: Paganica

AREZZO

Castel Fioraia: Capolona

ASCOLI PICENO

Villa Pelagallo: Porto S. Giorgio

BARI

Villa Karusio: Putignano

BERGAMO

Villa Visconti: Brignano Gera D'Adda not far from Treviglio
Villa Pesenti del Pollak: Sombrieno

BRESCIA

Villa e Parco Rota: Bovezzo

CASERTA

Palazzo e Parco Reale: Caserta

COMO

Villa Cicogna: Bisuchio
Villa Padulli: Cabiate
Villa Serbelloni: Bellaggio
Villa d'Este: Cernobbio
Villa Cagnola: Gazzada
Villa Valerio: Gironico al Monte
Villa Crivelli: Inverigo
Villa Bazzero: Villa Vergano
Villa Buttero: Olgiate Molgora about 3 kms. from Milan
Villa Bossi: Tevernerio on the road Como-Erba

FIRENZE

Villa di Poggio a Gajano: Carmignano
Villa Cambiani: Castel Fiorentino
Villa Granaiolo: Castel Fiorentino
Villa Castello: Sesto Fiorentino
Villa Corsi Salviati: Sesto Fiorentino
Villa della Pietraia: Sesto Fiorentino
Villa del Riposo: S. Domenico di Fiesole
Villa di Spicciano: Tavernelle val di Pesa
Villa di Trebbio: S. Pietro a Sieve
Villa Smilea: Montale
Villa La Magia: Tizzana (Pistoia)
Villa Castel di Bisarno or Beccari: Bandino (Bagno a Ripoli)
Giardini di Boboli: Firenze
Open on Thursday and Sunday afternoons
Villa Medici: Careggi (Fiesole)
Only during residence of the owner it is open to holders of permit who must write to him directly
Villa Artemio: Carmignano
Castello di Montebicchieri: S. Miniato
Villa Montalvo: Campi Birenzio
Villa di Bibbiani: Limite sull'Arno
Villa di Lampezzi: Bagno a Ripoli
Villa di Casale: Castello (Sesto Fiorentino)
Villa di Badia: S. Miniato
Villa le Corti a Ruballa: (exil Macinatoio) Bagno a Ripoli

LUCCA

Villa la Torricella: Pieve a Nievole

MACERATA

Villa S. Leonardo: Contrada S. Bucheto, about 7 kms. from Recanati
Villa Colleredo: Via Duomo, 8 Recanati
Villa Molle: about 8 kms. from Tresa
Villa Boschetto: Urbisaglia about 6 kms. from Macerata

MANTOVA

Villa di Begozzo: Palidano about 4 kms. from Gonzaga

MESSINA

Villa Trevelyan Cacciola: Taormina
Villa del Duca di Bronte: Taormina

MILANO

Villa Litta Modignani: Affori
Villa Tittoni Travelli: Desio
From June to November on Mondays and Thursdays
Villa Pennati ex Archinto: Monza
Villa Borromeo d'Adda: Senaco

NAPOLI

Villa Aragona Pignatelli: Riviera di Chiaia 200 Napoli from December to May
Villa Monaco: Corso Garibaldi 35 Portici-Napoli
Villa Montecalvo: Via Borgo Arso 2 S. Giorgio a Cremano
Villa Leone (ex Vergas): Via Enrico Pessina 18, S. Giorgio a Cremano
Villa Floridiana: Napoli
Villa di Capodimonte: Napoli
Every Sunday

PADOVA

Villa Martinengo: Ponte Casale Candiana
Villa Donà Delle Rose: Valzansibio

PERUGIA

Villa Piermarini: about 1 km. from Spello
Via Nazionale 60 Roma

PESARO

Villa Caprile: Pesaro
Villa Mirafiore: Colle A 'Bartolo Pesaro

ROMA

Villa Doria Pamfhily: Albano Laziale
Villa Verrajoli: Albano Laziale
From July to October
Villa Ghigi: Ariccia
Villa Sora: Frascati
Villa Mondragone: Frascati
On week days only
Villa Jandolo: Roma Via Flaminia 126
Between 3 and 5 p. m.
Villa Aldobrandini: Frascati
Villa Savorelli: Sutri
Villa Massimo ex de Rossi: Roma
Villa Falgari: Tarquinia
Villa e Castello Borghese: Bomarzo
Villa Gregoriana: Tivoli
Free entrance on Sundays
Bosco Comunale: Albano Laziale
Villa Agosti: Bagnoregio
Villa Doria Pamfhily: Roma
Villa Parisi: Frascati

SIENA

Villa Mieli: Castelluccio
Villa di Santa Colomba: Monteriggione
Palazzo Pienza: Pienza
Villa Castello - Castelluccio - Biforchi: Castelluccio (Pienza)
Villa Castelnuovo Tancredi: Buon Convento
Villa di Belcaro: about 3 kms. from Siena
Open every afternoon from 2 to 5

SIRACUSA

Villa Landolina: Siracusa

TRENTO

Castel Toblino: on the island of Lake Toblino
Villa Acqua Viva: about 12 kms. from Trento on the road from Trento

TORINO

Villa Agnelli: Villa Perosa
Via G. Giacosa 38, Torino
Villa Nigri: Via S. Vito 45, Torino
Villa Della Regina: Torino

(*continued on page 86*)

Photograph by Tebbs & Knell

THE CHARM OF AN EARLIER DAY

This house is furnished with many good examples of antique furniture and the Early American atmosphere pervades. Mrs. J. R. McDowell's home at Knoxville, Tennessee; Barber & McMurry, Architects

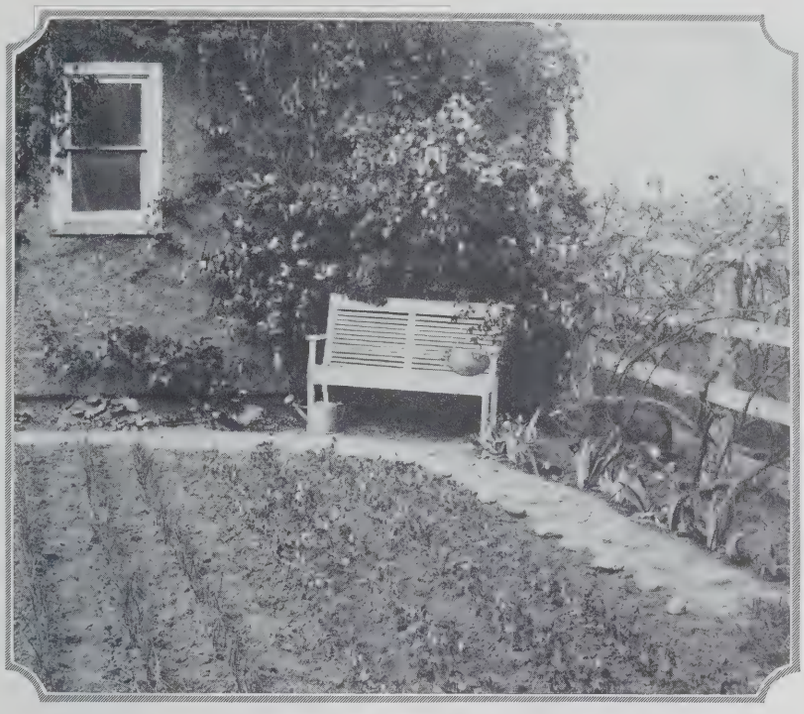
Good Vegetables from Your Own Garden

What seeds to buy and how much for a well sustained table this year

ADOLPH KRUHM

WHAT 'junk' people will eat, when home grown vegetables can be *so* good! I recall watching a cook prepare some Black Valentine Beans shipped from the South. Both back and front of each pod was reinforced by a piece of rope. After skinning the pods they were carefully quartered and boiled for two hours. When they were finally served they represented just so much woody fibre, temptingly flavored with salt and pepper, with plenty of butter to ease their descent.

Now, this is no exaggeration. The same thing goes on in a vast percentage of suburban homes month after month, year after year. On the whole, the city dweller fares better. He depends on canners whose business depends on what the cans hold. My heart goes out to the poor suburbanite who depends on the greengrocer to keep him supplied with so-called 'fresh' vegetables—regardless of cost.



Crisp freshness, delicate tenderness, and fine flavor unknown in the store product are yours from your home grown vegetables

Now let me tell you what you get. The greengrocer gets from the commission man what that individual gets from the truck gardener. The trucker grows primarily for looks, shipping qualities and, in some instances, size. Not one of these factors makes for quality—as a matter of fact, the truckers' standards and the ultimate consumers' ideals will never meet. Yet, vegetable growing in the home garden is being abandoned more and more because more and more people are getting the notion that it does not pay. In some instances it does not, but that is the fault of the owner rather than of the garden.

Practically, vegetables may be divided into three groups. There are those that are really farm crops, such as Potatoes, Squash, Cabbage, etc. These are more or less of standard quality, deterioration due to age, etc., playing but a small part in either their appearance or nourishment value. Then we have other vegetables, produced on truck farms which also do not vary greatly in quality. This group embraces Onions, Egg-plants, Peppers, Turnips and others not subject to rapid wilting. Finally we come to the vegetables which are seldom, if ever, obtainable in satisfactory quality on the market. And this is the group deserving the consideration of all home gardeners who have the space, time and inclination to work for quality food.

I have added the factor of 'inclination' advisedly because in the cases of some vegetables inclination to 'fuss' over them bears remarkable results. This holds particularly true with Lettuce, especially the heading varieties which, in my humble opinion, are the only ones worth growing. Lettuce is particularly responsive to intensive culture. Extra hoeing, occasional shading, special feeding, etc., all are conducive to producing fine quality heads.

Another vegetable appreciative of special attention is the Tomato. But unlike Lettuce, Tomatoes do not like to be disturbed around their base. For this reason it is well to hill them, drawing the soil four to five inches high around the base in form of a circle, a foot or more in diameter. In suggesting this it is assumed that the plants are properly staked and pruned —the only fashion in which Tomatoes should be grown, especially in home gardens of limited dimensions or, for that matter, under any conditions at all. To permit Tomato plants to ramble at random invites waste in various forms and waste of any kind is a crime.

In connection with all vegetables suggested in table herewith (excepting Tomatoes) it should be borne in mind that all are of ideal table qualities for a comparatively short time only. The slogan to be remembered

(*Continued on page 112*)

PLANTING TIME TABLE FOR THE HOUSEHOLD VEGETABLE SUPPLY

Class	*Variety*	*Ready for Table*	*Sow*	*Repeat*	*Crop Estimate Per 10 Ft. Row*
Bush Beans	Bountiful Green Pod	60 days	May 10	Every two weeks	10 qts.
	Sure Crop Wax	60 days	May 10	Every two weeks	10 qts.
	Stringless Green Pod	70 days	May 20	Only one sowing	8 qts.
	Stringless Refugee	85 days	May 20	July 1	12 qts.
Beets	Eclipse	60 days	April 15	Every week	3 doz. beets
	Detroit Dark Red	65 days	April 20	Every week	3 doz. beets
Carrots	Short Horn or Early French Forcing	60 days	April 15	Every week	4 doz. carrots
	Amsterdam Forcing	65 days	April 20	Every week	3 doz. carrots
Corn	Early Dawn	70 days	May 15	Every two weeks	20 ears
	Golden Bantam	80 days	May 15	Until July 1	20 ears
	Howling Mob	90 days	May 20	June 1	20 ears
	Golden Cream	100 days	May 20	Only one sowing	20 ears
Lettuce	Dreer's All Heart	55 days	April 15	Every week	10 heads
	B.S. Big Boston	60 days	April 15	Every week	10 heads
	California Cream Butter	65 days	April 15	Until May 15	8 heads
	Crisp as Ice or Mignonette	70 days	April 15	June 1	10 heads
Peas	Market Surprise	55 days	April 15	Only one sowing	8 qts. pods
	Little Marvel	60 days	May 1	Repeat May 15	10 qts. pods
	Thomas Laxton	70 days	May 10	Repeat May 15	8 qts. pods
	Potlach	85 days	May 15	Only one sowing	10 qts. pods
Radishes	Rapid Red	25 days	April 10	Every week	8 doz. roots
	Rosy Gem	30 days	April 15	Every week	7 doz. roots
	French Breakfast	35 days	April 15	Every week	7 doz. roots
Tomatoes	Bonny Best	95 days	April 1	One planting	10 pounds } Per staked plant
	Marglobe	105 days	April 1		15 "
	Chalks Jewel	115 days	April 1		20 "
	Matchless	125 days	April 1		15 "

THREE WAYS WITH AN ARCHWAY

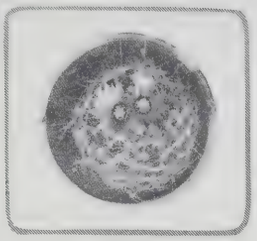
Photographs by George H. Van Anda

This very ingenious use of arches not only adds a picturesque touch and an air of spaciousness but also has its practical points, particularly for the small house where shelf-room may be at a premium and free ventilation an asset. Designed by an architect, Mr. Alfred Scheffer, for his own house at Douglas Manor, Long Island

Flowering begins when the plants are but 1½ inches tall. The largest here shown is six inches

The lemon-yellow flowers produced two at a time have a peculiar spicy fragrance

Unlike most desert plants which have but one short burst of bloom this Echinocactus, or Hamatocactus, flowers in successive crops every week for months



An Everblooming Cactus From Texas

Here's a Cactus that is also a really practical flowering plant all through the summer

CYRUS N. RAY

THE various Cactus native to our Southwest constitute a never ending source of material for the study of nature's methods of plant adaptation to unfriendly environment. It is probable that in no other place is there a greater surge of brilliant floral life to display itself during so short a period. Their diversity of various forms are cunningly constructed so as to conserve moisture in their spongy tissues from the period of superabundant May and June rains on through the long dry fall and winter seasons.

Cactus have gained much in efficiency by the elimination of leaves. Their compact structure makes possible not only the protection of a larger surface with fewer thorns, but it serves to greatly reduce needless evaporative surfaces. As a substitute for leaves the whole plant is covered with a green chlorophyll surface which utilizes the sun's rays for the same chemical purpose.

There is great variation in the color, form and arrangement of the spines with which the plants are armed to protect themselves from the host of rodents such as rabbits, rats, mice, ground squirrels, prairie dogs and other species native to that region.

During the long dry falls and winters, such gnawing animals fall upon and greedily devour all green herbage which is not either poisonous or heavily spined. Thus during the past ages all the species which were unable to create such protection have become extinct or have been compelled to either retire during the dry season into dormant bulbs, tubers, or fleshy roots, set deep in the ground beyond the reach of such animals, or they have been converted into annuals capable of producing plants, brilliant flowers and seeds all within the short rainy period.

The various species of Cactus usually mature their whole crop of flowers during the first two weeks of May, and so set and fixed are these evolutionary traits that no matter how much water and fertilizer may be applied at other periods, no flowers are produced out of season.

About the first of May of last year I came upon a species, new to me, which appeared to be a decided exception to the general habits of the family. Only a few plants were found in a very restricted area of a region which had been so thoroughly investigated that no species new to me had previously been found within a period of several years. [At our invitation, a specimen of this plant was sent by Dr. Ray to the New York Botanical Garden, and has been studied by Dr. N. L. Britton and Dr. Rose, who identify it as Hamatocactus setispinus.—Ed.]

These plants have bloomed constantly for more than four months and are still blooming and setting new buds as I write (September 9th). Comparing this record with the usual Cactus blooming season of ten days to two weeks, this species is seen to be quite an anomaly. The flowers on this everbloomer usually bloom two at a time and the whole collection blooms on the same day. About a week later another crop of buds blooms and so on during the whole summer. The flowers open only during the four hottest hours of mid-day, and fade after opening the second day.

The flowers vary from two and one-half to three inches across satiny texture and bright lemon coloring, with the central portion of the petal a bright Chinese red; the stamens are yellow.

There is a strong sweet fragrance to the flowers yet this is tinctured with a perceptible suggestion of a fine Havana tobacco odor. I know that this does not sound attractive, yet the odor is, nevertheless, a pleasing one.

The plants begin to bloom while very small, when not over one and a half inches tall and two inches across. Mature plants are usually about five inches across and four inches tall although the tallest one in the picture is six inches.

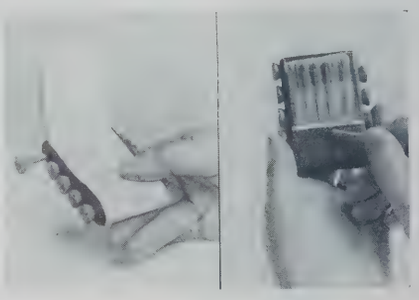
The plants are constructed of a series of thirteen ridges (*Continued on page 114*)

UP-TO-DATE DEVICES

A Window Screen that Rolls Up

One of the disadvantages of the outswinging casement windows has always been that there was no satisfactory way of screening them. To-day, however, we can have these 'sunshine windows,' and have them well screened, because there is now on the market a rolling screen that solves the problem. These screens may be raised or lowered as needed, require no annual storing, and are a permanent part of the house—guaranteed for ten years. This new screen is so built that it will not wear out, and it is practically indestructible. For details and prices of various sizes write Shirley Paine.

Tee and Match Caddy



Every golf enthusiast welcomes anything that will help his game; and any time or energy saver is sure to keep his state of mind more amiable, and thus, indirectly, keep down the score. This little device combines three necessary bits of golfing equipment; score card, tees, and matches. On one side of the block matches can be carried, while the score card fits on the opposite side. The 'caddy' also carries ten ready made tees. It is small and compact—about the size of the ordinary match folder. ($1)

Utility Bag for Travelers

Bags and cases of various sorts and descriptions have been designed to save space and provide convenience for Pullman travelers. And here is yet another—one that carries an unusual amount, and yet so designed that it takes up a mimimum of space. It is rubberized throughout, and medicine and damp wash cloths may be carried with safety. It is adjustable and collapsible and covered in an attractive fabric. (In silk it retails at $3.75; in leather $4)

Handle for Steering Wheel

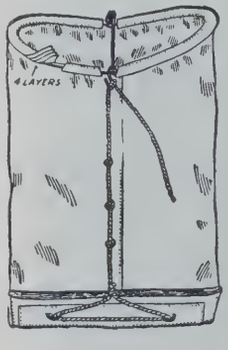
Here is a knob for the steering wheel of your car—a device to make driving easier, and long trips less tiring. It acts just like a handle, and the wheel can be spun around with one hand, leaving the other free to shift gears. In backing, it will give you real control of the wheel with a single hand; and you can lean out of the window, or turn around in your seat, to see where you are backing. A neat looking appurtenance it is, too, when in place and one which the motorist will enjoy. (Walnut knob, $3.50; composition knob, $2.50)

Weatherproof Garden Labels

Sticks of wood, slit to hold the garden label, are never attractive, and often metal ones will rust away. This card holder at the left is made of special rust-proof iron, galvanized, and finished in dark green. To designate a special plant, remove the card and cover; mark the card with an ordinary pencil; replace and cover with the mica. If a particularly fine effect is desired, marking may be done with oil paint or waterproof India ink. (In two sizes, 25 and 30 cents)

Fruit Picking Bag

Every gardener is interested in having his fruit harvested with least waste and in the shortest amount of time possible; and this fruit picking bag does just that. It is made of heavy canvas duck, with a wide shoulder harness —and may be unhooked from the harness and carried by a handle to any part of the orchard. The bag may be emptied without bruising or mashing the fruit in any way, due to the wide pleat in the bottom of the bag. Owners of orchards large and small will welcome this addition to their equipment. ($2)



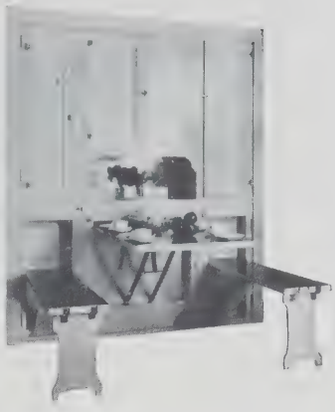
We take pleasure in announcing that we are offering a new shopping service to our readers. Send your check for the article you wish to Shirley Paine (payable to her), care Doubleday

FOR THE HOMEOWNER

Candle Holder

At last a simple arrangement has been perfected for holding candles around a floral piece or birthday cake for table decorating. So often we want the glow of candlelight, but feel that candlesticks would spoil the cake design. If there is a place to stick the candles, well and good; but if not, the problem remains. This metal ring has five cups for holding candles, and any floral arrangement can be made within the circle. Smilax will completely cover the metal ring—or at Christmas time a wreath of holly will do the trick. (50 cents)

Folding Breakfast Nook



For the apartment or cottage that has no dining room, this little breakfast nook is ideal for the small family. The table and seats fold out of the way when not in use, and the closed front appears to be simply a cabinet, bringing no discordant note into the kitchen furnishings. There is room above for storage—linen, utensils, or groceries—and even a tiny nook for flowers or fruit. The unit can accommodate four people, although two are more comfortably served. Even for the larger house the nook is a useful piece.

Collapsible Hat Box

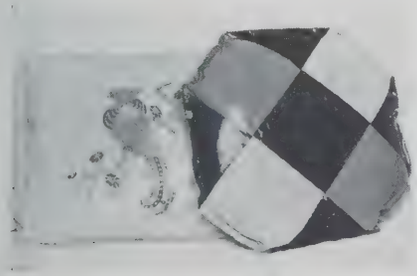
A completely collapsible hat box made of washable material is an article every woman will be interested in hearing about. It may stand on a shelf or hang on a hook, and is a decorative adjunct to any closet. The material snaps on a steel frame which can be folded flat when not in use. It is made in the latest ribbon pattern effect, in various attractive colors to suit every taste. (One shelf, $1.50; two shelves, $2.50; three shelves $3.50)

A New Can Opener

The housekeeper who likes to keep her kitchen up to date will be interested in this totally new can opener. By squeezing the handle together two small tempered tool steel circular cutters open, and when the handle is released, these fasten onto the angle at top of the can. By turning the handle two things happen: the top comes off smoothly and without effort, and the specially formed cutters roll over the rough edge usually left on the can to snag your fingers, making it round and smooth like the edge of a tin cup. ($5)

Rain Proof Pillows

Pillows for veranda and lawn are lovely, but it is a nuisance to rush out and rescue them every time a storm comes up. These pretty colorful pillows below are made of oil cloth, and rain or dew will not hurt them. They come in all the attractive new designs, and are ideal for sunporch use as well as outdoors. Children will like them for picnics and beach parties. One of those shown at left has the gay parrot motif, and the other is the new block pattern. ($2.50)



Decorative Switch Plate

This decorative switch plate is a new invention to make wall switches attractive and in harmony with their surroundings. It replaces the common brass switch plate, and is easily installed by anyone right over their present switch. The only tool required is a small screw driver: there is no wiring of any kind to do. In three finishes—light bronze, dark bronze and Butler's silver; also ivory plate and tan basket, ivory plate and lavender basket, French gray plate and darker gray basket. (For tumbler or toggle switch, or push button type, $2.50)

Doran & Company, Inc., 244 Madison Ave., New York, and she will do the rest. If you order more than one article at a time, please send separate checks. This service is entirely without charge.

Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

Old-fashioned Roses in the South

I WAS very much interested in Mr. Hamblin's article on old-fashioned Roses, in the last March number of Garden and Home Builder and I want to say again that I am glad that someone is making an effort to keep these Roses from dying out. I have in my garden several of the Roses he mentions—Safrano, Duchesse de Brabant, Souvenir de la Malmaison, and Devoniensis—and I consider them among my choicest Roses. If I could have only one Rose in my garden, it would be Duchesse de Brabant; but I should hate to have to do without Safrano although its open flowers are not particularly pretty, but the bud is one of the loveliest of all Rose buds, the only trouble being that it opens very rapidly so that fresh buds have to be cut every day if one wishes to enjoy them in the house. It is one of the earliest Roses to bloom, beginning usually by the middle of April, and as it is a Tea, continuing off and on all summer until cold weather, often until Thanksgiving, and sometimes later. The Malmaison is a nice Rose, but not particularly exciting, and Devoniensis has the most delightful fragrance of any Rose I know.

There is another old-fashioned Rose in my garden whose name I would be glad to have someone tell me, if it has a name other than the one by which it is known here. It is a small, deep pink Rose, lighter inside than out, and I have never heard it called anything but the 'Daily Rose.' That is all the name it needs, really—it is most fitting, as it does literally bloom every single day from the time it starts (and it's the very first Rose to bloom, beating Safrano by ten days or two weeks), until late in the fall. I've read over Mr. Hamblin's list, hoping to run across it, but if it's there, he doesn't give it the name I know it by. If it has another name, I should be glad to find it out. —Isabel B. Busbee. *N. C.*

[Probably Pink Daily or Daily Blush, one of the oldest of the Chinas'—Ed.]

Perennials to Treat Rough

I KNOW several that could be added to the list Dr. McFarland gave a year ago. There is the very valuable Eupatorium coelestinum, miscalled by most people Ageratum, which it closely resembles. It is a very choice plant, hardy (at least in this section) blooming late in the fall at a time when very little else is in bloom; but if planted with other things and left unmolested, it does 'take the earth.' Fortunately, it is shallow rooted and there are always neighbors who are glad to get one's surplus plants. Another little plant that spreads enormously is what is known here as Mexican Primrose, Texas Windflower, or by some, just Pink Lady. It is low growing, spreads by means of runners and seems to belong to the Evening Primrose family. It may be Oenothera tetraptra var. childsi—as the description of that variety in Bailey seems to fit it better than any other. It is a valuable little plant—stands anything, heat, cold, drought—but my! how you do have to weed it out!

I find some of the annuals that self sow quite troublesome, too, always coming up in places where you don't want them—Larkspur, Cornflower (Centaurea cyanus), and Calliopsis—but I wouldn't be without them for anything.

I am trying out a lot of new flowers this year—things that do well in the North, but that I have never seen tried here, and I am anxiously waiting to see how they will like our August weather.—Isabel B. Busbee, *Raleigh, N. C.*

Infant Prodigies in the Holly World

THE crusade to save the Holly is being backed up in a constructive way by the work that Dr. P. W. Zimmerman of the Boyce Thompson Institute for Plant Research is doing at Yonkers, New York. This bids fair to be more helpful than the negative prohibition method, for it is hard to imagine Christmas without Holly! Dr. Zimmerman is exhibiting small Holly trees in pots, which bear a dozen red berries on a four inch growth. He has five thousand Holly cuttings in the greenhouse and if this crop turns out as well as the smaller experimental plantings have done, everyone may be able to have a Holly tree at his own front door!

Holly trees ten months old, with a crop of red berries, grown at the Boyce Thompson Institute for Plant Research

The experimental plans show that two years of growth have produced potted Holly eighteen inches high, ready to be set out and become a permanent addition to the garden after it has served its time as a house plant.

Holly can be grown from cuttings of almost any type. Two or three year old wood will root as well as current growth. Generally a straight terminal four or five inches long will be best. This should be planted deep in the rooting medium so that the last two leaves rest on the medium. Roots will form in six to ten weeks where greenhouse temperature is kept at 60° to 80° F. No bottom heat is necessary.

For berries the cuttings must be taken from trees bearing pistillate flowers. The plants will flower in the spring after being potted.

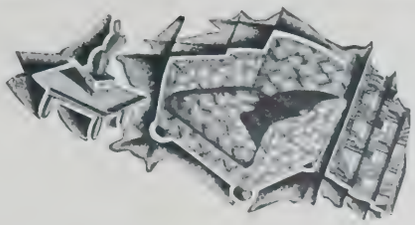
Medium: Mixture of peat moss and sand in equal portions by volume or good bank sand with very little clay, having good texture and which does not cake when watered.

Holly material best suited for cuttings: Four to five inch long tips of current growth cut back to the old wood.

Planting the cuttings: Cuttings should be planted so that the tip barely shows and the uppermost two or three leaves should lie flat on the rooting medium.

Time of taking the cuttings: September to January first seems to be the best time for Holly cuttings. Some rooting may be had at other times of year but probably best results can be had by taking cuttings in December or January. After the cutting is rooted, which should be about April first when taken in January, it should be planted in a mixture of peat moss and garden loam which runs somewhat acid. For the first few days the potted plant should be placed in good sunlight and will tolerate a dry atmosphere.

Dr. Zimmerman has had success also in growing the Blue Spruce from cuttings, and a merry war goes on at the Institute between those who are working magic with the seed and those who are backing propagation by cuttings. Dr. Zimmerman points out that historic trees such as the Charter Oak and Washington Elm might have left a long line of illustrious de-



imported fabrics of modern design, angles, zigzags, in prints or subtle weavings

FROM the most famous fabric houses of Europe come the stunning prints and interestingly woven decorative materials presented here by F. Schumacher & Co.

Apparent in all these fabrics is the modernistic tendency towards geometric designs —triangles, rectangles, circles, zigzags!

Some are hand-printed — in line and color that fascinate by their boldness, their simplicity. Others bear the inimitable quality of Rodier's creations—materials so clever in design, so subtle in weave, that each side is a pattern in itself.

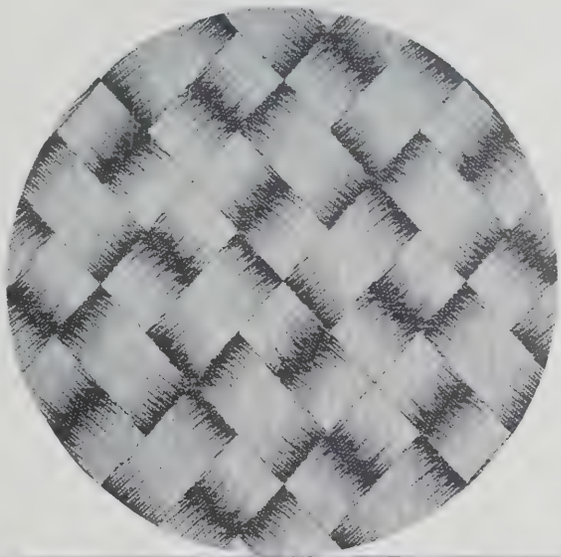
Schumacher offers a wide selection of modern designs and weaves — as well as authentic reproductions and adaptations from the past — in fabrics for every decorative use.

These may be seen by arrangement with your decorator, upholsterer, or the decorating service of your department store. Samples selected to fit your requirements will be promptly obtained by them.

A New Booklet—"Fabrics, the Key to Successful Decoration"

This interesting booklet has just been completed. Written by an expert and beautifully illustrated, it gives briefly the history of fabrics and discusses—from the decorative point of view—their utmost importance in successful decoration.

This book will be sent to you without charge. Write to F. Schumacher & Co., Dept. D-3, 60 West 40th Street, New York. Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Grand Rapids, Los Angeles and San Francisco.



(LEFT) *Firmly woven upholstery fabric in brown (or dark blue, green, salmon) on écru; brown and salmon, grey and white.*

(BELOW) *An interesting fabric for draperies or upholstering—in salmon, golden brown, dark brown, green, beige, yellow or grey.*

(RIGHT) *Hand print in orange, marron and mauve. It comes also in red, rose and tan, or in three shades of green.*

Undulating stripes and circles of varying sizes printed on a faintly lined ground of tan—in several color combinations.

Spirited bands and blending rectangular forms woven in brown on écru. Other colors are salmon, gold, red, green, light brown.

A hand print with serpentine motif comes in various color combinations and is suitable for draperies, slip covers and cushions.

F-SCHUMACHER & CO.

scendants had cuttings been made and properly handled.—Anne Pierce, *New York City.*

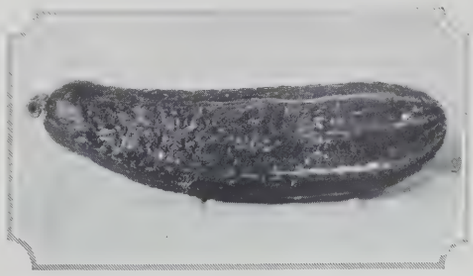
Some American Indian Vegetables

SEVERAL varieties of common vegetables derived from the Indian plantations of the northwest have distinct qualities that make them well worthy of a more extensive cultivation. Extreme earliness and ability to resist unfavorable conditions are the usual reasons, but a few kinds are recommended for superior quality, as in three varieties of beans. The Great Northern Baking Bean, from the Hidatsa Indians, and now grown extensively as a field crop in Idaho and Montana, is perhaps the highest quality white field Bean, cooking in a shorter time than Pea Beans, is sweeter, more tender, and more easily digestible. It is not particularly good looking—the seed is white (looking something like small white kidneys, but more flattened).

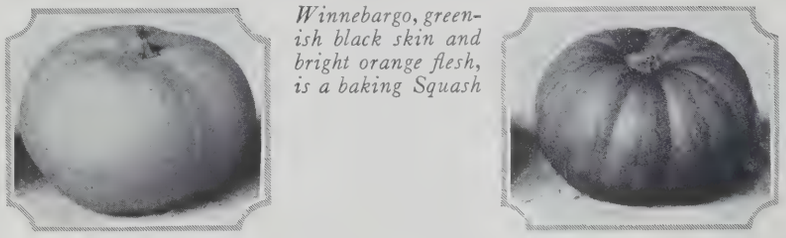
The Hidatsa Red Bean is shorter and thicker, dark red seed, about the color of the dark red kidney bean, and of a peculiar angular or square shape. It is originally from the Fort Berthold tribes. The Arikara Yellow is a bright yellow bean, possibly better flavored than the Hidatsa, but not quite as heavy a yielder. These three might be regarded as Bush Beans, but have a tendency to make longer running vines.

Corn has always been the first crop with the Indian. The aborigine is not responsible for the present day highly evolved varieties, but he offers some types of distinct value in meeting his own conditions and that are now filling the demand for hardy, quick maturing varieties better than anything the white farmer of the corn belt has produced. Some of these, the flour and sweet corn varieties, have their place in the home vegetable garden. The Early Pickinny, the earliest Sweet Corn comes from western Canada. It is black when ripe. The Yellow Assiniboine, is practically as early, really a flour corn, it is almost equal to sweet corn in flavor. There is also a mixed color or 'squaw' corn of the same type. The flour corns resemble the flint field varieties in shape of grain but do not become as hard. These varieties will mature in sixty days from planting. The Nuetta Corn, a North Dakota product, is a little later with larger ears. The dried seed is red, but when fit for eating the ears are a golden yellow rivaling Golden Bantam. The ears of all these varieties are small and the plants are very dwarf, but their extreme earliness and the fact that they occupy but little garden space and may be closely planted in the row makes them valuable for first early and late succession crops. There is also an early strain of the Rice type of Pop Corn known as the Iroquois, obtained from the Indians of New York that is considerably earlier than the common white rice.

Arikara, the earliest Watermelon, bears melons that run in size from six to twelve inches in diameter, with an almost black skin and a pink flesh. An occasional melon will be yellow fleshed, it is sweet, but somewhat coarse.



Winnebargo, greenish black skin and bright orange flesh, is a baking Squash



Two types of Fort Berthold Pumpkin, left cream, right orange, described in Mr. Whallon's letter at left

The Fort Berthold Pumpkin is a selection from seed obtained from the Mandan and Arikara tribes. It is very early and of unusual hardiness. The fruits are small, round, flattened at the ends, either cream color or orange. The Omaha, an oblong, orange Pumpkin, obtained from the Omaha tribe is a little later and thicker meated than Fort Berthold. Both are earlier than Sugar pie Pumpkin.

The Early Mandan is probably the earliest Squash. It may be used as either a summer or a winter variety; boiled or fried, or the young squashes made into sweet pickles. Arikara is the earliest large winter variety, but it is a good keeper. In a dry locality it will outyield all others. The shell is salmon with markings of a blue-green suggestive of an Indian blanket The recommendation, 'of good quality' seems to me a little charitable.

Winnebago is a newer variety of better quality, very good as a baking Squash. The elongated squashes are greenish black in color and are good keepers. The flesh is bright orange, thick, dry, sweet, and free from strings. Gilmore is a cross between the Winnebago and the Arikara designed to combine the flavor and quality of the former with the hardiness and productivity of the latter. The shape is long like the Winnebago, but the color and markings are those of the Arikara.

The main advantage of these varieties is that they have made it possible to grow these crops under adverse conditions and in localities of advanced latitude and altitude where the seasons are short and the maturity of other varieties could not be obtained.—Archer P. Whallon, *Stockbridge, Mich.*

A Plea for Teas

JUNE used to be called The Month of Roses, because Roses bloomed then and at no other time. There are legends of recurrent bloomers of antiquity, but they were unknown to the home garden of the 17th century. In 1796 the Old Blush Monthly was introduced from China, being a great innovation; and in 1810 the first pink Tea-scented Rose was brought to England from China. Later a yellow Tea-scented Rose followed, and in France they were united and became the parents of the wonderful Tea family; soon the Teas were in great demand in the flower world. Since the advent of the Hybrid Tea, the Tea has been neglected.

Many flower lovers do not try to have Teas, thinking them all too tender. Safrano has been with us nearly a hundred years; so has Devoniensis, and Bon Silene. What fragrance they send forth! Bon Silene is my pink favorite, and La Pakta my cream.

The Duchesse de Brabant has been kept in the public eye as being the favorite of Theodore Roosevelt; it has always been popular in the South. Catherine Mermet is a Sixty-niner and is the mother of two lovely daughters—the Bride and Bridesmaid, needing the protection that lovely daughters should have. Marie Guillot is one of the purest whites, and the Queen another sweetly scented white. Mme. Lambard is still a fine pink favorite; and Mlle. Kruger so double and sweet and coppery, blooms best in the fall.

Marie Van Houtte is one of the best, a lemon cream touched with rose and grows tall and strong, and the almost perfect Maman Cochet boasts fine shaped flower with long strong stems and healthy handsome foliage. White Cochet is also good, and there are several candidates calling themselves Yellow Cochet. Take your choice between Mrs. Dudley Cross and Mme. Derepas-Matrat.

Papa Gontier and Mrs. Benjamin R Cant furnish the reds. Where these are not hardy they will pay for protection We almost think that the rose men have stopped trying to make Teas, when along comes Lady Hillingdon and Alex Hil Gray. Decidedly the Teas add fragrance to the garden.—Mrs. James A. Bane *Roanoke, Va.*

To Those Who Love Their Homes

For a number of years my associates and I have had the impression that you readers of *Garden & Home Builder*, loving your homes as you do, are ever anxious to learn of the inside and the outside of your homes.

We have felt that the information which you received both from the editorial and advertising columns of such magazines, as *Garden & Home Builder* is closely read and carefully followed. However, it has been our impression in the past that this interest of yours lies mostly in things which you can see.

For instance, we have felt that because paint is ever visible in its beauty and ability to protect your property, it is an accepted fact and a sound investment. Such things also as heating appliances and the like, which gives visible evidence of their merit, are a tangible part of your plan of home management. We think, in other words, that you are convinced of the merits of those things.

On the other hand, we have been told and have believed, that in the hidden things of the home you are less interested.

Specifically, we refer to such things as the piping in and about your homes. We have believed in the past that, because you did not see these things each day, because you could not compare the relative deterioration and wear in pipes of various materials, you cared little about the type of material used in your piping.

We have been told also that, because there is such little difference between the physical appearance of *Byers' Genuine Wrought Iron Pipe* and other pipe, you would not take the trouble to look into the relative merits of two grades of pipe, a prosaic product which, from one year's end to another, you do not see.

Now, however, we are told that you who love your homes, who build not for one year or two, but for permanency, are just as alive to a discussion of pipe as you would be to the comparative merits of floor coverings. We are told that you love not only Beauty but Utility, and that you would read with the greatest interest a message which would logically and truthfully prove that a slight additional first cost in *Byer's Genuine Wrought Iron Pipe* would materially lengthen the life of your piping service and, by the same token, prevent for many years the costly plumbing bills involved in replacement.

This frank advertisement, then, is our sincere effort to find out if this be the case. We want to know if your interest *does* go deeper than the surface of your homes.

We want to find out if it is true that your love of beauty goes hand in hand with your desire to build well and thus save money.

If this be true, then we know that you will write for a brief booklet which makes very clear the saving over a period of years which can be effected by the use of *Byers' Genuine Wrought Iron Pipe*. In this booklet we discuss frankly and freely why it costs more to make wrought iron pipe and how it resists the ravages of rust.

A coupon is placed at the bottom of this advertisement for your convenience and I pledge you an interesting and instructive bit of literature and a real saving in dollars if you will write for it and act upon it.

Yours faithfully,
A. H. BEAL, *President*,
A. M. Byers Co.,
Department B,
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BYERS PIPE
GENUINE WROUGHT IRON

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Street No. ..... *City* .....

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YOUR GARDEN *in the month of* MARCH

Northeastern Section

T. A. Weston

DIRECTIONS FOR USING THIS GUIDE

AS TO TIME AND PLACE: In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind.; Quincy, Ill.; Denver, Colo.

How easy it would be for the gardening scribe to set down dates for doing certain jobs in the garden if weather conditions were constant! Some have ventured to make up such a calendar for a year ahead! And, after all, I fear it would be a monotonous sort of existence if we gardeners found that we could do the same job on the same day each season as it came around. But, fortunately, there is no place where climatic conditions are just according to the calendar. Who, for instance, on Christmas Day (when it was decidedly cold around these parts), anticipated that six days later the frost would be out of the ground? Yet such was the case and I for one made the most of the opportunity to complete the digging of a new border that frost two weeks before had stopped. Just that much less to do in March!

The Plants in the House

They are just gasping for more sunshine and less heat than they have received during the winter. Those people who possess heated sunparlors or a greenhouse, have no cause for worry, but we who have no such luxuries have to do the best we can, and since March is prone to bring some fairly warm, sunny days, these afford an opportunity to stand outside for a few hours parched Palms, Ferns and other foliage plants. If one has a glassed in porch, this can be used almost every day, providing the temperature inside is not below 50 degrees. One must not, of course, take chances at night. The bulbous subjects of the hardy class if they are to be saved for future planting outdoors, may be given similar treatment as they go out of flower. So long as they are protected from sharp frost they will go on growing and develop sufficient strength to bloom the next season when planted out. The remaining pots or plans that may still be buried outside, should now be brought indoors. Being thoroughly well rooted they will make rapid growth and it is purely a matter of temperature that governs the time of blooming. If desired for Easter, give the pots a cool position. Darwin Tulips certainly should not be rushed.

Why Not Some Lily-of-the-Valley?

If, by the way, you have no bulbs stored away for Easter try some 'cold storage' Lily-of-the-Valley pips. Many seedsmen can supply these and a dozen packed into a pot or even in a fancy bowl filled with peat moss, will come along splendidly if stood in a warm, dark place. Cover the bowl or pot with an inverted pot or dish and keep just moist and the flower spikes will be well up in about three weeks. If kept quite dark until the foliage and flower spikes are six inches high, they can easily be finished off by gradually exposing them to the light. 'Cold storage Valley' as the trade calls it is one of the simplest things to handle, and by periodical planting may be bloomed over a long season. But the pips must be fresh from storage and never at any time allowed to become dry.

Readers in the West and South are referred to pages 66 and 68 for special reference to those sections

Prune and Spray Fruit Trees

All pruning not completed, should be done as early this month as possible. The sap will be moving and some subjects show their resentment of late pruning by bleeding profusely, particularly Grapes and Cherries. While the buds are dormant, too, is the time to spray with the strong, cleaning washes. Some of the pests that hatch from eggs laid in the fall will soon be coming to life, and a good sousing with lime-sulphur is apt to scotch some of the rascally tent caterpillars and aphis waiting for the first leaves that appear. Dig lightly among the bushes and trees as soon as the ground is workable and don't forget that fruits need feeding. Even if your garden is but moderate size, why not plant a few dwarf Apples (on Paradise stock) and dwarf Pears (on Quince stock). If particularly cramped for space, plant single stemmed cordons—there are a few nurseries that specialize in these small trees. Currants and gooseberries are 'sure fire' croppers in the average garden; of the former the Black is prohibited in some places but it is a grand pie and jam fruit, makes a far finer tonic than any grape that comes from the West.

The Vegetable Plot

The seedsman tell us that the cheap auto has led many a home gardener to give up his vegetable plot, but whether it is true or not, the fact remains that no auto ride can match a feast of home grown peas, asparagus, or even beans. I do not consider it worth while to grow a whole series of vegetables if one has only a small lot; the average 100 ft. by 50 ft. garden is likely to give more pleasure if it is devoted wholly to flowers and the grass patch which every self-respecting gardener feels is necessary to give finish. If he does not think so his good lady does, so that she may invite her friends to have tea on the lawn, mosquitoes and flies notwithstanding. But, a row or two of Peas, Beans, a few Onion sets for early pulling, and some Tomato plants, if nothing else, ought to be considered. And to grow these well, the ground has to be prepared early, especially for the peas which must be sown as soon as conditions permit in April. The Asparagus bed is a permanency, and where there is room 50 to 100 roots will prove a positive delight. It *must* be well drained, deeply dug and heavily manured to ensure its doing well, but otherwise Asparagus is a simple thing to grow. Two year roots or even one year roots planted in April and kept free from weeds by good tillage, will, the year after planting produce a moderate crop and in after years a regular feast over several weeks.

Getting the Flower Garden Under Way

In the New York region March is a dangerously deceptive month. Mild, bright days may, before the end of the first two weeks, clear away all snow and ice from open situations, tempting the gardener who finds some of his plants showing activity, to remove the coverings of hay, etc., from the borders and rockeries.

If the gardener has to be away from home daily, he must resist such temptation as at any time, strong north or easterly winds may bring (*Continued on page 66*)

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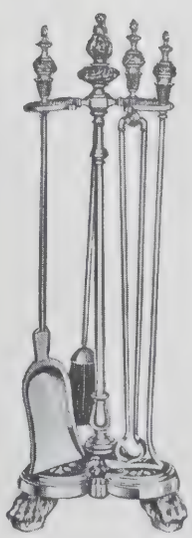
A booklet, describing our service, and photographs of available offerings, will be gladly sent you upon request to our New York office, Dept. GHB. Or, you may communicate with us through your architect or decorator.

Beauty on the Hearth

Our constant quest for the beautiful in fireplace adornment frequently results in acquiring antique mantels truly of exceptional character. Typical is this antique mantel of the Georgian Period. Genius, in deftly blending the virtues of beauty with those of utility, seldom scales the heights of artistry which this exquisite mantel represents.

Can you imagine for but a moment the charm that such a mantel would bring into the home? Can you not feel the pride that must accompany its possession and the knowledge that here is something individual—alone in the world? This mantel is 5′ 5″ high; the shelf is 7′ 4″ long; the opening is 49¾″ by 44″ and it is priced at $3500. The andirons to match, which are illustrated above, are in silver finish, 32¼″ high, and are designed after the Georgian Period. Price $540 for the pair.



Georgian Period Fireset, silver finish, $145.

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IN THE early years of the Republic, some master carpenter built this doorway in Ridgeville, Maryland, working out the classical tradition in wood. The sensitiveness of its detail, its dainty knocker and small round knob have won comment in the Metropolitan.

The patient, careful spirit of craftsmanship, which guided the builders of the doorways exhibited at The Metropolitan Museum, guides the makers of Sargent Hardware in present-day New England. It has placed at the disposal of modern home builders solid brass and solid bronze hardware in authentic Colonial designs—interior hardware, as well as heavy knockers and robust entrance handles. Every piece of it, lock set or hinge, is hardware well made. Quiet and smooth of operation. Prepared to serve faithfully for generations.

A post-card will bring the book of designs, "Hardware for Utility and Ornamentation." Select Sargent pieces with your architect. Sargent & Company, 48 Water Street, New Haven, Connecticut.

The detail of brass hardware on this doorway exhibited by The Metropolitan Museum is of interest to all who build in the American tradition. The decorative knocker carries out the effect of the design. The simple brass knob shows the influence of classical restraint.

This brass knob is true to the Early American style. It connects with the Sargent Cylinder Lock. This one is proper here, or a variety of handles with thumb latches, all to be had in Sargent Hardware. Ask for knob No. 1845 (or one of our plain patterns) and cylinder. The "Newfane" knocker, No. 9 in the book of Sargent designs, has the decorative touch correct for your Colonial door.

SARGENT
LOCKS AND HARDWARE

Your Garden in the Northeastern Section

Continued from page 64

biting frost which will, in a few hours, freeze out the life of Pansies, Violas, Foxgloves, Canberbury-bells, etc., and ruin the buds of Azaleas and other dwarf shrubs. Plants that have been protected by frames should not be uncovered; air may be given, but do not remove the sash unless some dependable person is around to watch the weather's antics. It may be taken for granted that every soft wooded subject we grow is, in its native wilds, protected either by deep snows or litter of some kind which accounts for the fact that while they may come from infinitely colder regions than our own they are prone to be tender in our gardens. I use no coverings on frames devoted to Pansies, Violas, Carnations, etc.; the celoglass sash is all that is required, even for small seedlings. Ignore the bright days of March to the last even though the Pansies and Violas in the frames are gay with flowers.

Preparations for Planting

It is possible, weather permitting, to get in an hour or so daily toward the end of the month, at work outdoors. Vacant ground that is to be planted later should be dug as early as possible; with the advent of April and May all sorts of jobs have to be done and if ground preparation is left so late it is certain that the plants awaiting a shift suffer by the delay. Every kind of perennial and particularly those holding their foliage, ought to be planted out in April. Beds required for annuals or Dahlias, Gladiolus, etc., can be left till the last. If you plan to build up a rockery get to it as soon as soil conditions permit so that things may settle down before the plants are put in.

All kinds of evergreens and deciduous trees and shrubs can be planted at the latter part of the month and through April when conditions permit and early orders will insure delivery in good time. Hardy perennials of every description too are usually ready for shipment before March is through, particularly from nurserymen who carry them in pots.

New Things for You

The novelty section in a catalog will interest the enthusiast; the advertising columns of this magazine too, are worth consulting. A new shrub that promises well because of its extreme hardiness and early blooming is th Siberian flowering Almond introduce by Prof. Hansen of Brookings, S. D The red leaved Japan Barberry is fine thing for a sunny situation, whil among the newer hardy perennials bot the large flowered double Gypsophila Ehrlei and Bristol Fairy are essentia To all intents these two are practicall identical. The new Viola Jersey Jew will probably please many by its larg flowers and persistent flowering but must not be shaded any more than i prototype Jersey Gem. The white Jerse Gem is attractive and since it is tr Gem type it makes a good companio

If you failed to order hardy Lilies la fall don't delay as crops of many sor were scarce last season. Order, too, t Gladiolus you need; large bulbs of mar popular sorts were announced as scar at lifting time, and it is doubtf whether any eastern grower lifted average crop owing to the wet la summer. I am a strong believer in gre plants of Dahlias; they flower little, any, later than roots, produce equal fine or finer flowers and are less affect by 'stunt.'

Don't Delay the Seed Order

Select the regular stand-bys first, a then choose as many novelties as can accommodated. One of these from G many is Venus Ageratum which h white flowers with pink centers. Seve new Snapdragons are also offered. F it is among perennials that one finds many interesting seed novelties. M conopsis baileyi is worth every eff for in England it caused a sensat when first shown. Primula florindae other new discovery from China, even more striking than P. sikkimer growing 3 ft. or more tall with h foliage. Hollyhock Imperator is a r double strain developed from the frin exquisite type. Geum Orange Queen still new enough to merit notice; a Scabiosa caucasica goldingensis is extra fine type; Gaillardia Portola L brids, Iceland Poppy Coonaria, a r Australian strain, and Viola Jersey G which is claimed to come about 35 cent. true. These and many other things are available and if sown season most of them will make g plants for the following year.

Your Garden in the South

ETHEL HUTSON

Soil

As there is still danger of cold weather as late as the middle of March here in the lower part of the States that border on the Gulf of Mexico, it is wise to use the first half of the month working the soil rather than cleaning up and planting. Following up the work done in February (when the mulch was spaded in and the soil turned up in large clods), additional fertilizer can be spread and worked in as the clods are broken up. Use either commercial fertilizer or the old-fashioned stable manure and spade the ground deep as it is worked in, repeating this spading a week or ten days later, when the beds may be raked level and the seeds or plants put in.

Pruning and Spraying

Heavy pruning should be done in winter when the trees, shrubs, and vines are dormant, but clearing away frost-killed foliage and cutting b Poinsettias, Plumbago, Antigonon other plants which have been pa killed back should be done after middle of March when there is no da of additional damage from cold, for dead leaves and old vines give consi able protection to the plants. The e garden can now be safely cleaned, wood being trimmed out and bur the leaves and vines buried in the post heap, and all remaining vegeta sprayed with insecticides.

Lawns and Ground-covers

As the spring weather makes the g begin to sprout, weeds will begin to s up here and there in the lawn. T must be taken out with a sharp h trowel, making as small a bare spo

Continued on page 68

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Your Garden in the South

Continued from page 66

possible in the lawn. Be sure to get out the entire root and fill the hole with fresh earth, well packed down. Bermuda Grass is still the favorite for lawns here in the Far South but there are many other cover-plants suitable for shady places or for terraces where the lawn mower is impractical. Among these are English Ivy; Ophiopogon japonicus, a dark-green grass known locally as Spanish Grass or Snake Grass; a close running mint which smells strongly of Pennyroyal and needs a damp location; Indian Strawberry (Fragria indica) with its attractive yellow flowers and ornamental red berries; Pink Oxalis; and for terraces, Trailing Lantana and Moss Verbena. Under trees where there will be no walking, use Ferns and the small-flowered Begonias. For a sunny portion of the yard where color is more desirable than just a close-cut lawn, sow wild flowers such as the White and Yellow Mexican Poppies (Argemone mexicana), Gaillardia, Vincas, Zinnias, Portulaca, Phlox, Verbena, and Balsams. The space between the fence and the sidewalk, or between the sidewalk and the street pavement, is an excellent place to try this. If Garden Clubs would encourage this as well as the road-side planting throughout the country, the wild field flowers now being destroyed by cultivation of the fields and the yearly burning off of pasture lands would stand some chance of reproduction in a natural way.

Trees

Camphors and other evergreen trees can still be moved or set out: in fact this is the safest time to move Camphors, as they are putting on new growth in the fall and should not be moved then. Deciduous trees have begun to grow by this time and must be left alone except for spraying and working. Peach trees and Grapevines especially need spraying just as soo the leaf-buds begin to form, for fu and insects both begin at once to at the new foliage.

Perennials

March is the month when peren should begin to run up their bud-s so they should be fertilized, wor kept well watered and free from ins Hollyhocks and Canterbury-bells quickly attacked by insects. Chry themums, Shasta Daisies, pere Phlox, Coreopsis Lanceolata, Ga Carnations, Golden Glow (Rudbec and Cannas, and other perennials multiply rapidly should be divided later than the first week of Mar earlier would have been better.

Annuals

After the middle of the month, safe to plant the seeds of all the sun annuals: Portulacca, Zinnia, Sc Sage, Purple Sage, Sunflowers, Cos Balsam, Sunrise Amaranth, Nastur Vinca, Torenia, African Mari Ricinus (Castor-Oil plant), Pet Stock, Verbena, Ageratum, Co Browallia, Annual Calliopsis, Co cristata (Cockscomb), Centaureas white-leaved Dusty Miller is espe good for borders), Annual Chrysa mums, Cleome, any and all o Convolvulus family.

Vegetables

Fertilize, work, and bed up the table garden in the same manner flower garden and plant Celery, Le Parsley, Cress, Beets, Carrots, Rad Spinach, Mustard, early Cab Kohlrabi, Swiss Chard, Leeks, Ch and Roquette. By the end of the Okra, Tomatoes, Eggplants, Pe Endive, in fact any of the summer tables may be planted either fron or from small plants started in fr

Your Garden on the Pacific

ELIZABETH URQUHART

Preparation for Summer

The days are lengthening and growing warmer, and besides the blossoming fruit trees there is a wealth of wild flowers in the fields and a host of bulbs in the garden. The gardener who has fallen behind in his work must lose no more time but make ready for summer. The soil must be spaded and raked, all weeds dug up, as they rob the ground of moisture, and although it is too late to turn them under they will be useful on the compost heap for leaf mold. Spade and fertilize all vacant beds making them ready for the summer blooming plants and wage warfare on snails, slugs and all garden pests.

Annuals and Perennials

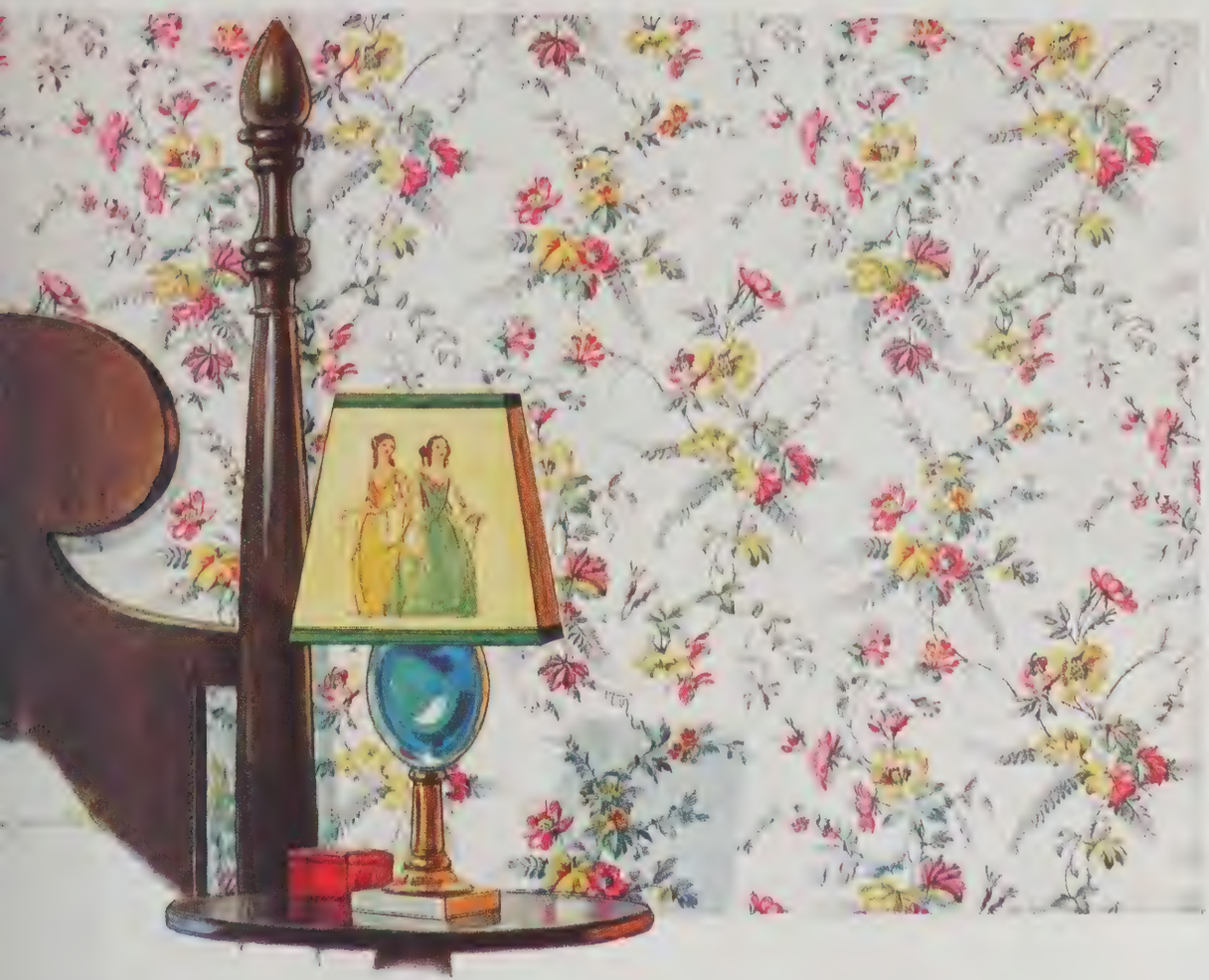
Annuals may still be planted, particularly those not hardy enough to stand, everywhere, the cold of winter.

Such perennials as Carnations, Pentstemons, Violets, Phlox, Columbines, Campanulas etc., may be set out in good well-prepared soil. It is a little late for setting out Roses and deciduous shrubs, but the more tender evergreens may be planted. Eucalyptus, Acacias and Pepper trees (Schinus molle), may be planted now before new growth gets well started. The Pepper trees are male and female, and only the mother trees bear the coral-colored berries so admired, so this fact must be r bered in buying. In selecting Aca planting, a list may be made ou to have some of them blooming all though the year. The early bai blooms in January, dealbata in ary, the pyomantha and the cu mus in early summer, and the folia in autumn.

Pruning for Cuttings

Poinsettias, as well as Hydr and Fuchsias may be pruned n cuttings made from the prunings blooming, the Poinsettias should back to a few buds, in some cas one. They will bloom in Centr fornia out of doors, if given the conditions of heat and moistu are at their best in Southern Cal south of Santa Barbara.

Hydrangeas thrive best alo moist, coast regions, requiring sh much water in the warm dry They may be planted in tubs as suggested for Cannas, havin drainage, to conserve the wat hortensia varieties will bloo months in the year, and be flowers in acid soil condition natural or produced artificiall by excessive leaf mould.



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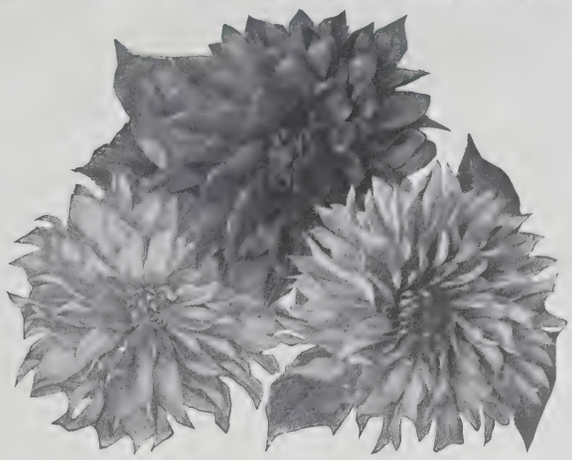

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Heirlooms of Yesterday and To-morrow

Continued from page 29

Chair. From about 1795 to 1825 or 1830, a light chair with rush seat and painted frame was extraordinarily popular. It was known as the fancy chair and some chair-makers specialized in it. Almost every old family in the United States owns at least one fancy chair—a development of one of Sheraton's latest ideas.

For instance, 'William Challen, Fancy Chair-maker from London,' advertised in a New York newspaper in 1797, that he 'makes all sorts of dyed, japanned, wangee and bamboo chairs, settees, etc., and every article in the Fancy Chair line after the newest and most approved London styles.' In 1812 Asa Holden, 32 Broad Street, New York, had 'a superb assortment of highly finished Fancy Chairs, such as double and single cross, fret, chain, gold, ball and spindle-back with cane and rush seats. The cane seats are warranted to be American made.' New York was the great manufacturing center for this industry, but many other cities manufactured the Fancy Chair. Among the Massachusetts makers was one Hitchcock, whose name has been erroneously used for this type of chair. Hitchcock would have called his productions Fancy Chairs. The Fancy Chair was painted white, black, bright red, green, blue or yellow and touched up with gold. On the top rail very frequently a design was stencilled and worked up in metallic gold or silver, or in bright colors.

Waterford Glass is indeed a 'name to conjure with.' It is one of the handsomest kinds of table glass, because it is so richly cut that it scintillates and gleams with prismatic fire. Opinions differ as to the relative beauty of the earlier shallower cutting and the later deeper cutting. A great deal of the glass known as Waterford was made elsewhere—in Bristol, Cork, Belfast, Stourbridge and Dublin—but Waterford, established in 1783, is the most famous. Both English and Irish Flint Glass is different from any other glass because of its power to *refract* light. The English and Irish cutters developed every means to encourage this play of light, by the most ingenious and lovely patterns. Hence, there are many varieties of diamond cut, bands, lozenges, stars, splits, flutings, blazes, leaf, f toons, fans, hob-nails, printies, por granates, basket-weavings. The acco panying illustration is from a Bos collection. English and Irish cut gl comprises every article used on table. The candelabra are also fam and are increasing in popularity.

If you find in your family china c board an old teapot like the illust tion you have something of value. T is a Pineapple Teapot made Thomas Whieldon of Staffordsh probably about 1752–1758, when yo Josiah Wedgwood was a partner. We wood had a large share in perfecting green glaze for the Cauliflower T pot made by Whieldon and also in golden and green glaze for the Pi apple Teapot. Colonial American ne papers are full of advertisements 'pineapple,' 'quilted' and 'cauliflo ware. Whieldon was so famous for teapots that some collectors to-day specializing in them and can show their shelves all the interesting varie with the different forms of spouts, and handles. Collecting Whieldon pots is a fascinating hobby.

People sometimes almost come blows discussing what is the cor version of Willow Pattern China. fact is there are many versions an of them are correct. The story is known of how the young secretary rich mandarin wooed and won daughter; how the lovers eloped, mandarin pursuing them across bridge; and how the lovers escaped were eventually changed into b Thomas Turner of Caughley was first to use 'Willow Pattern,' whic had engraved by Thomas Minto 1780. Josiah Spode introduced Caughley pattern into Stafford in 1784 and it became so popular nearly all the English potters of the made it with slight differences. S have 'Willow Pattern Plates' by Sp Wedgwood, Davenport, Adams, C and others. Examples also came Leeds and from Swansea. Colle try, however, to get Spode's versio the mandarin's house, bridge, f willow-tree, peach-tree, boats, isl figures and birds, as shown in th companying illustration.

Another Way of Lessening Your Fire Risl

Continued from page 28

wood, usually in the form of rough lumber or flooring, which is preferably air-seasoned prior to impregnation, is subjected to a preliminary vacuum in order to facilitate penetration. Then the fire-retardant salts, in water solution, are introduced into the cylinder until the pressure is built up to the desired maximum. This pressure is maintained until the required amount of chemical is injected into the wood, as indicated by gauges or other measuring devices, the time required varying according to the kind, size, and condition of the wood. After the pressure is broken, the solution is drained off and the treated material left to drip in the cylinder for a time. Following this the wood is seasoned sufficiently to meet the requirements of its intended use. For flooring and interior finish this means about seven per cent. moisture content and necessitates kiln drying, which is carried on in a manner similar to that empl for drying green lumber.

Recent discoveries indicate tha difficulties encountered in past deavors to devise a treatment sui for outside use have been overcom seems likely that at least one of new processes may find practica plication in the 'fire-proofing' of for both interior and exterior use.

Meanwhile 'fireproof' paints play a leading rôle in making shi and other exposed wood more resistant, for such surface coa afford considerable protection greatly decrease liability to igr from sparks or a small flame. these two aids to safety the home who prefers wood to any other ma —and there are many such—ma under his rooftree calm in the assu that hazard has been reduced to a

A Garden Full of Gladioli for $2.00

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"That, dear Molly, is one of the advantages of having one's own greenhouse."

To which bit of conversation allow us to suggest your sending for our Greenhouse Catalog

Hitchings and Company

Elizabeth, New Jersey

"My Maryland"

Two Fascinating New Dahlias

Originated by Downs Dahlia Farms

AFTER a number of years devoted to careful selection of seedlings and growing good Dahlias on our South Jersey farms, we present in 1928 our first originations, in two wonderful Dahlias. Both varieties have been thoroughly tested, and those who have seen our fields know the wonderful growth and habit of these two novelties. Visitors at the New York, the Atlantic City and the Baltimore shows saw both **Jane Cowl** and **My Maryland** as prize winning exhibition varieties. We offer them with the assurance that they rank with the best the Dahlia world can offer.

My Maryland

No description or picture can do this beautiful flower justice. It is a graceful Hybrid-Cactus of rich bright pink, with each petal tipped with ivory both at the center and on the outside of the flower. My Maryland won the *Garden & Home Builder* Achievement Medal at Atlantic City, where it also won over Jane Cowl as Best Undisseminated Seedling. It was awarded Certificate of Merit at Storrs by the American Dahlia Society last year. It won in New York as the Best Undisseminated Hybrid-Cactus Seedling. The flowers are large and are on strong stems. The plant is rugged with leather-like foliage.

Tubers $15.00—Delivery April 15, 1928
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A massive Decorative Dahlia, the sensation of the New York show of the American Dahlia Society. Winner of the Sweepstakes prize offered by *Garden & Home Builder* for the best Undisseminated Decorative Seedling. Also awarded the Certificate of Merit by the American Dahlia Society at Storrs in 1927. A long, stiff stem supports gigantic blooms, which are buff and old gold blending to bright salmon at the center.

Tubers $15.00—Delivery April 15, 1928
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Send for Our New Dahlia List

Both My Maryland and Jane Cowl are illustrated in color. Many other varieties of merit are presented in this list. We shall be glad to send you a copy on request.

DOWNS DAHLIA FARMS

Box M **Clayton, New Jersey**

Hearthstone Editor's CHAT

This department is for every one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. Its purpose is to bring to each homemaker all the aid and advice so freely offered by the business world to-day. Booklets (see next page) may be had upon request. Order by number only and as many as you wish. Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

PAINT FOR DECORATION

ALL the beauty that may be brought to both old and new walls by the use of modern paints is but little understood by the average home maker. Nor is there realization of the ease whereby unusual, new and highly decorative colors may be achieved by even the amateur. The unpleasing picture presented by the old-time 'painted wall' has gone. That painted wall of other days has given way to a wall of beauty that not only will carry out any color scheme desired but will hold such individual design and color that no two walls need ever look quite alike. Paint, in fact, has become a decorative medium of distinction.

The number of tints and shades which may be secured by the use of paint is practically unlimited, for paint is the most flexible medium of decorative expression. Where once 'painted' walls meant only one solid color and that provided either in a high gloss or a dull, dead surface, to-day we have walls in two and even three tone effects, and with a soft, flat finish that gives a velvety surface almost like fabric. These finishes may even be figured if desired, a two-toned figured wall being extremely easy to secure, for it simply means brushing one color as a finish over the ground coat of another color, the figure produced in any one of several ways. A newspaper may be rolled loosely in a crumpled fashion, crosswise of the paper. This held by both hands is then rolled down the wall over the finishing coat while it is still wet. The paper removes some of this wet coat permitting the ground color to show through. If desired, the newspaper may be crumpled up into a wad and this either rolled up and down the wall or the wall patted all over with it. Either method produces a most pleasing wall that is individual.

In such a wall there is no monotonous repetition of pattern, neither is there such vivid design as to annoy even the most exacting. For a two-toned wall, the entire surface should be first given a ground coat, this being allowed to dry thoroughly. The finishing coat should be brushed over a small bit of the surface, in strips about 2 or 3 feet wide and from 6 to 9 long. Over this wet surface, the newspaper is easily rolled, beginning at the top of the strip and pressing the paper firmly against the wall to prevent slipping and consequent smudging. Where a slip has occurred, this may be quickly repaired by brushing the spot with the finishing color and re-rolling at once with the paper.

If the roll of paper becomes too wet to lift off any more of the top coat, either refold it so that a dry surface is secured or take a fresh paper. After one strip has been done and another strip of wall painted, begin work on this second strip with a freshly crumpled roll of paper, and overlap the strip already done for about an inch so that there will be no plain places between the strips. Where a paneled effect is desired, this is easily secured by 'figuring' one strip with the rolled paper, then leaving the second strip plain and 'figuring' a third strip. By tacking temporarily a thin strip of molding along the edge of each strip, a perfect line will be secured so that the panels will be true at the edges.

Variety may be given to the top and bottom of the wall by rolling the paint at the top with stiff paper having sharp edges that will only uncover small bits of the under coat. Nearer the baseboard, the newspaper roll can be used to remove larger surfaces. Where the ground coat is much darker than the upper coat, the effect of a shaded wall is easily produced by the use of these two kinds of paper. It is a very easy matter to regulate the size of the figure on the walls since the softer paper which is more absorbent will remove more paint than a stiffer paper with consequent larger pattern.

This two-toned painting may be varied in still other ways. If, for instance, two shades of the same color are used, two entirely different walls may be produced, if in one the light color be used as a ground coat under the darker finishing coat and on the other wall, the finishing coat be the lighter shade. This reversal of coats is often used on the same wall at top and bottom resulting in a dado.

A striking effect will result from the use of a deep color as a finishing coat over a very light under color. For a bedroom a wall was produced that appeared to be covered with a fabric, simply by using a very pale green as the first coat with lavender as the top finish. Leathers are easily simulated by the use of metallic bronze paint over an under-coat of a deep tan, the finishing coat being removed by rolls of crumpled newspaper.

A sponge may be used to lift the wet top coat where an entirely different figure is desired; or the wall may be lightly tamped all over with a round brush. Cheesecloth rolled into a ball and patted over the wet top coat produces still another variation. In fact, a painted wall may be just what the individual chooses to make it.

Even woodwork may be made to fit into this new picture by the use of a glaze which is usually a very thin varnish slightly tinted to be used over a painted surface. This glaze can be purchased at any store handling paints. Where woodwork is to be treated with this, the glaze should be a lighter and contrasting color. When the undercoat on the woodwork is dry, the glaze is then brushed on and at once wiped off with a cloth while still wet. Enough color is left in the crevices to produce unusual results. A gray tinted glaze over light blue paint makes a beautiful finish for woodwork in a bedroom, while a brown glaze over orange, or blue over yellow is extremely pleasing. This work is all so simply done that the veriest amateur can secure lovely, individual walls that will bring to her home new colors and charm.

In these modern homes of ours, we are learning that the word 'decoration' no longer means just the upholstery of the chairs and couches, nor the rug on the floor. It means the walls, the floors, the ceiling of a room. This is part of the decoration that the amateur frequently forgets but it is only by including the entire make-up of the room both structural and decoratively that we can give to the room the desired quality of beauty.

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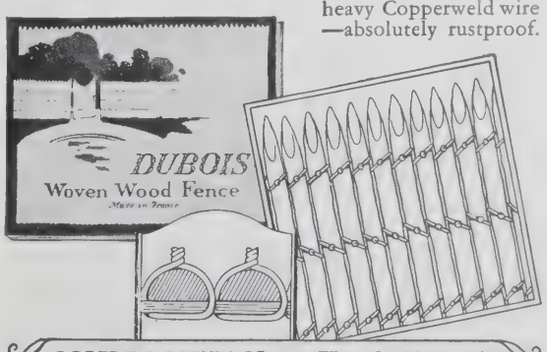

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Berries Better Than You Can Buy

Continued from page 36

mulch. In small gardens as a substitute for cultivation it is a good plan to maintain a mulch of leaves, lawn clippings, cut weeds or any other loose material of vegetable origin that will hold moisture; prevent weed growth and by decay add to the plant food in the soil.

In this way conditions found in nature will be imitated and the plants benefited thereby. This plant food may be safely supplemented with dressings of ground bone, a liberal handful to the square yard. No fear of overdoing this fertilizer.

When the summers are dry it is an excellent plan to use overhead irrigation both to enhance the size and quality of the fruit and to enable the plants to develop their full strength. The water should be allowed to run all night.

Federal quarantine order No. 26 makes it illegal to ship or grow Currants or Gooseberry plants anywhere in several of the states or in certain sections of other states because these plants help to spread the disease known as white pine blister rust. Wherever they may be legally grown and where the summers are not too hot they should be in every garden. They are of easiest culture, hardiest and surest of all berries to produce fruit, and their few enemies are controlled with trifling effort.

Both fruits have been injured in r utation because for market they gathered while still too immature to eaten raw. While it is true that n of the currants are actually sweet, e when fully ripe, yet some are less a than others. These are as delicious grapefruit when the berries are se rated from their stems, mixed with su and served cold three or more ho later. Fully ripe gooseberries are e more delicious to eat raw just as t come from the bushes. They t make a jam that has no equal. Curra cooked with raspberries or with ap juice to make jelly, or with ba quinces are so delicious that whoe tastes them will want to grow eno bushes to supply the home t throughout the year.

Leading varieties of Currant are fection, Diploma, Cherry, Fay, Wil Pomona, Red Cross and White Gr (doubtless the best white varie Among the Gooseberries Downing probably the leader in America, tho Chautauqua, Red Jacket, Colum Smith and Poorman are highly esteem and liberally planted.

From the landscape gardening sta point some of the berries have dist value. Raspberries, Blackberries Dewberries, for instance are beau during May.

Prize Winners in Gladiolus

Continued from page 24

Supposing that we want Dr. Elkins, for instance, in bloom on August 15, how shall we go about it? Dr. Elkins is in Class (3), and requires on the average about 100 days bloom from planting on May 5. Counting back 100 days from August 15, gives us May 7. In an early season, with a warm spring and early summer, Dr. Elkins may grow faster than the calculated rate, and bloom sooner, while in a backward season it may be later. So, if we plant a few large bulbs of it in May 2 or 3, and make another planting on May 10 or 12, one planting or the other or part of each will quite surely be in bloom on August 15. Since a planting of a dozen or more bulbs is apt to bloom over a period of about ten days, the allowance of an eight or ten day period between plantings is not too long. The calculations will hold only for localities of average earliness, and in the North-Eastern states, around Boston in particular. But a similar plan of computations may be followed in most localities, by making a proper allowance for the earliness or lateness of the locality.

Having planned our plantings so that they will bloom in good season, how are we to assure ourselves that we can develop as fine blooms as the other fellow?

On a reasonably rich and fertile soil, the only requirements are plenty of water, sunlight, good cultivation, and a little extra fertilizing at just about the time the first flower buds begin to form deep down between the leaves. These can be felt as a swelling in the stalk about a week before they come into sight. The making of flower buds is a tax on the energies of the plant, and a little extra nourishment at just this time will be well repaid in finer and larger blooms. I use nitrate of soda, scattering it about four inches away from the plants, and at the rate of ½ pound to 100 feet of row. Others p sheep manure, which is milder and be used more liberally. Any ferti reasonably rich in nitrogen may be to advantage, but be careful not to it too freely. An overdose of ferti may cause the tips of the leaves to brown, and spoil the appearance o foliage.

Anyone acquainted with the gro of Gladiolus will realize the valu rather wide spacing for the exhib plants. Eight to twelve inches apa ample for most varieties. Natur there are a lot of details of culture care all of which help to produce finest blooms. But a full discussio these would make this story too Good, careful gardening, sun water, enough room to grow and a extra feeding at the right time wi wonders with the Gladiolus.

The truly exhibition varieties gained that reputation because of they can do with good care. Mo them are handsome flowers whe grown, but their best perform when grown from large, strong and with extra culture, is what has their reputations. There are a few v ties that can make wonderful exhib flowers, but only under exceptio favorable conditions. These in several of the lavenders and v particularly Badenia, and some of colors—Europa, Diener's Ame Beauty, etc. Europa is the only weak grower that has held its place prize winner, and it may soon be placed by some of the newer and str white varieties. Generally speakin prize winning varieties are strong vigorous as well as handsome, and be expected to give a good accou themselves in anybody's garden.

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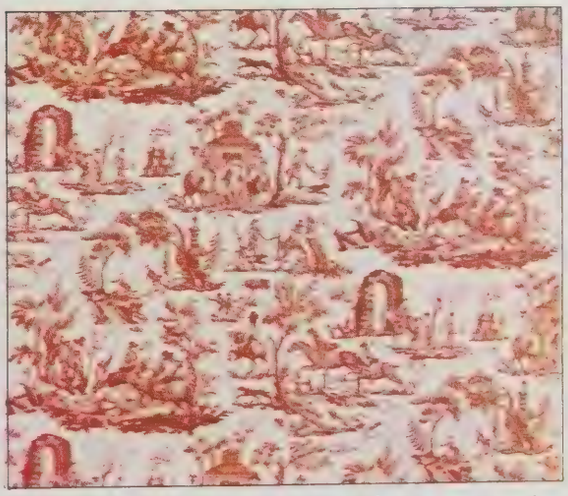

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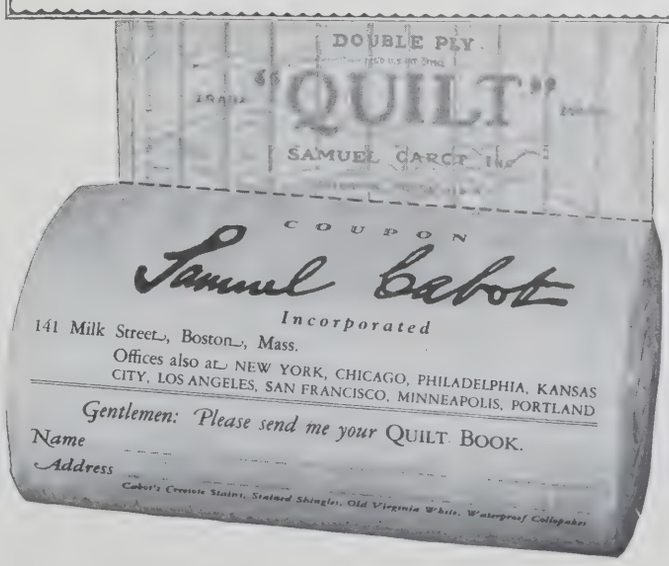
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"WHERE," your guest asks, "is the bathroom?" . . . Perhaps a request like this embarrasses you a little. Perhaps your bathroom isn't quite all you'd want it to be. *Is* it attractive, well-appointed, as modern as it should be? The fixtures, of course, are made of porcelain. Clean . . . white . . . sanitary. But what about the toilet seat? . . .

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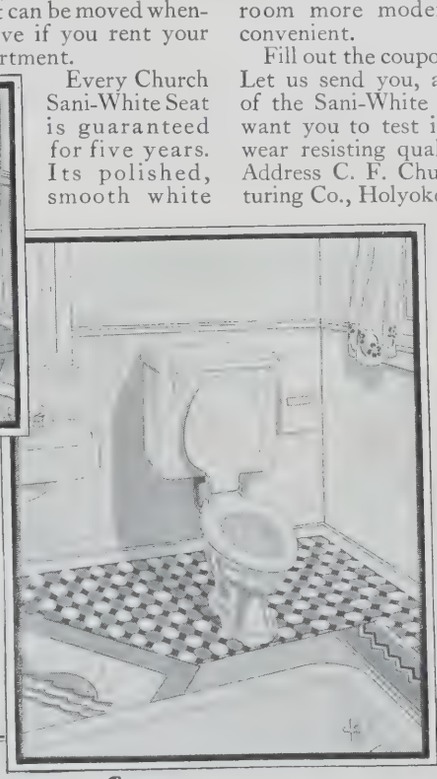
Fill out the coupon *now—today!* Let us send you, also, a sample of the Sani-White covering. We want you to test it for dirt and wear resisting qualities yourself. Address C. F. Church Manufacturing Co., Holyoke, Mass.



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Spraying with iron sulphate begins in April and is given to the last of October when the Dandelions are practically gone

Getting the Dandelions Off the Lawn

Continued from page 32

ideal for the entrance of Dandelions and other unwelcome guests. Manure, if applied at all, should first be finely divided by screening or otherwise. And in the development of our weed-tight turf, lime has no part, since the application of lime is not only money wasted but is harmful since it paves the way for the entrance of innumerable weeds.

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For the average home lawn, a fertilizer mixture made up of equal proportions of a complete fertilizer (such as can be purchased from any dealer) and sulphate of ammonia can be applie the rate of not over one pound per square feet of turf, distributing ev to prevent streaking the lawn. applications yearly, one in the sp and the other during the fall, are ommended. Do not apply the mix to the young tender grass of new s ings, nor to established turf during heat of the summer when there is da of burning the greensward.

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To those who may desire to de the Dandelions immediately while ing for the Dandelion-proof tu develop, the use of an iron-sul spray is far less laborious than work with knives and similar de Use iron sulphate with water a rate of one and one half pounds gallon. Spray five times during season, first when the blossoms to unfold, and at intervals of a m thereafter. By this means the y pest will be practically destroyed single season although an occa spraying will be necessary to d the plants 'blown in' until the D lion-proof turf has had a chan form.

The product of cutting off Dandelion tops in the usual way. They have been dug on this lawn for a number of years

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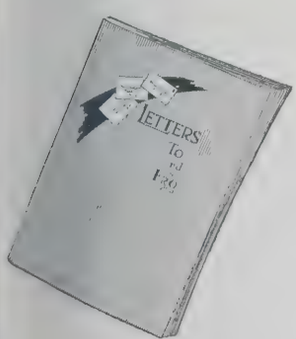

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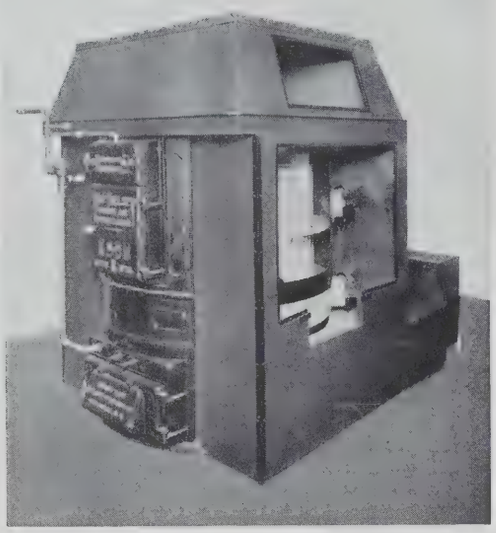

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Making a Little Walled Garden

Continued from page 25

maintain and treacherous even to the most faithful masters.

Within the little walled enclosure what an opportunity there is for perfection of the gardener's art! Like the painter's canvas, your landscape is glorified by a protecting frame excluding all that is distracting to your picture and unifying the entire composition. But a picture worthy of a frame is worthy of an artist's skill or at least an artist's point of view.

The frame must be selected to harmonize with the picture. The wall must be designed in full comprehension of the garden it is to enhance. The wall may play a vital part in the decorative scheme or again the wall may be merely a background. In either case it is but a part of a picture and should not demand more than its proportionate share of attention. Let the wall be high enough to definitely discourage the eyes of the idly curious and not stop half way as if it had tried to be a wall and lost heart. The difference in cost between a five foot and a seven foot wall is slight; yet how infinitely more positive and inspiring is a coping line that meets the sky well above your eye level connecting your garden immediately with the clouds that bring it rain and heavens that send it sun!

Recalling its function as a frame, let the wall have a continuity and simplicity of line and form that enhances the garden design. A plain surface of soft colored brick or warm stone or even stucco with very slight projections in piers or panels will serve the purpose best for a small garden. The fewer breaks the better and it is not wise to attempt more than one material unless a stone coping is used on a brick or plaster wall. Simplicity of design and materials, beautiful proportions and surface texture are the secrets of garden wall success. Beware of the 'arty' combinations of brick, stone and stucco that strive for picturesqueness and achieve only confusion.

A sympathetic garden wall is an inspiration to a garden designer. Within its enclosure he visualizes patterns of path and flowers, water and turf infinite in variety. The garden pictured on page one is but one suggestion. I would urge the aspirant for a little walled garden to shake the kaleiodoscope and see with his own eyes the endless pa terns that may be created with t same elements. Let your preference colors, forms and arrangements sele a design expressive of your own in viduality.

Limitation in size should mean si plicity of design rather than diminuti detail. Great restraint must be ex cised in a small garden where a few fi effects must be relied upon to give int est throughout the year. A compl collection of perennials or shrubs is compatible with a unified effect in small garden. Selection of a limi number of reliable materials planted sufficient quantities to give a mass eff is a basic principle of small garc design.

As in the planting so it is in planning. Walks must be straightf ward in line and adequate in width. L than a four foot walk may be excusa in diminutive city gardens that fu tion as a picture from the wind but for a garden in which one m walk, a human being is out of scale w less than a four foot path.

Any motive such as a lawn pane paved terrace, a pool or a pattern flower beds must be extremely sim not to be out of scale with the size of garden. Intricacy and intimacy not compatible qualities in gar design. Yet with a little ingenuity can evolve an arrangement that is from commonplace—by careful thou a small garden may be designed modest terms to have all the charm picturesque beauty of the old-w courtyard gardens whose fascina has baffled generations of artists.

But let the creator of the little wa garden keep before him the motto simplicity, ingenuity and restraint let him admit at the outset that he fail if he tries to cram into his s space all the elements of a larger gar A subtle changing of levels—a cleverly placed—a chance bit of o ment skillfully set—a walk with i esting paving pattern—a shadow dental in appearance but studie effect—a beautiful flower combina or contrast of foliage texture—a f tain or pool giving life and gaye these are the elements on your pal It is yours to choose your pign and paint the picture.

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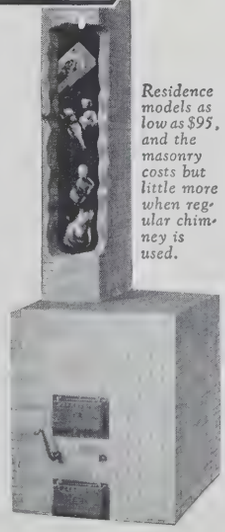

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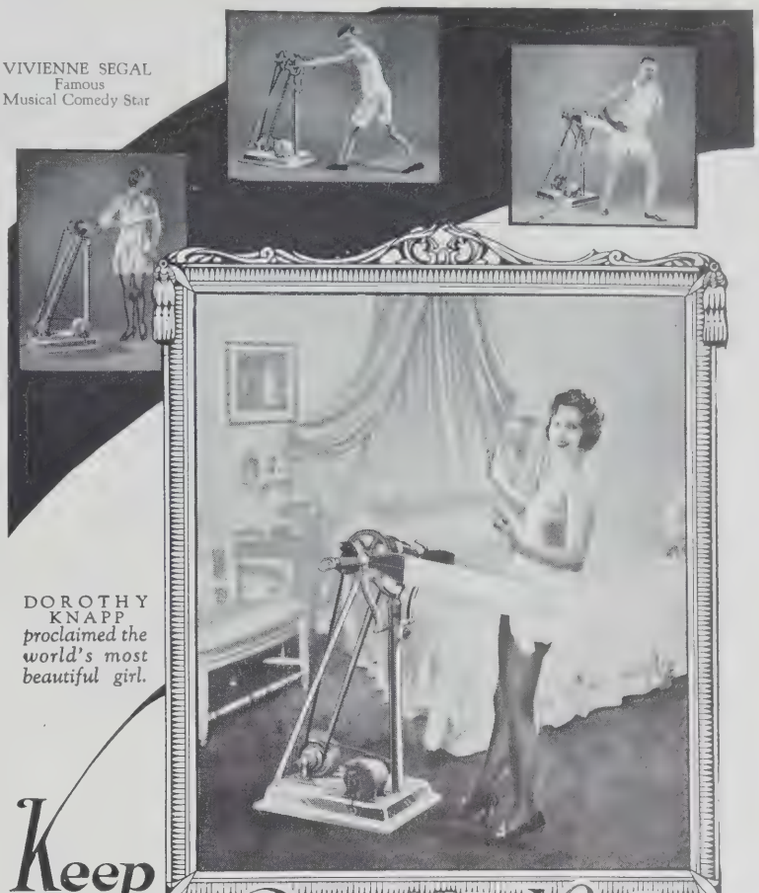

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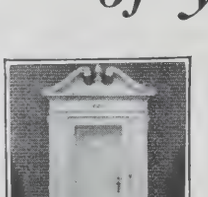

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HARTMANN-SANDERS

PERGOLAS ROSE ARBORS — COLONIAL ENTRANCES GARDEN EQUIPMENT — KOLL COLUMNS

National Garden Association

Continued from page 53

TREVISO

Villa Giacomelli: Maser

VENEZIA

Villa Pisani O Nazionale: Stra

VERONA

Villa Giovannelli: Villimpenta

VICENZA

Villa Ca' Rezontico: Bassano
Villa Negri: Bassano
Villa Ca' Erizzo: Bassano-Margnon
Villa Di Schio Ex Da Porto: Castelgomberto
Villa Giovannelli: Lonico
Villa da Porto: Trissino

The City Garden Club of New Y will hold an exhibition at the Center March 22–31. The winn plans in their competition for des for grounds surrounding the muse of the City of New York, will be sho A competition will be held at this hibition open for club members o of models of city backyards, win boxes and groups of potted plants.

For free constitutions, programs, by-laws for Garden Clubs, address National Garden Association, Garden City, Long Island, N Ellen D. Wagner, Secret

Insulating the New House

Continued from page 34

These materials are tacked over or between the wall studs and over, under or between floor joists and roofs rafters. They may also be placed between the under or sub floor and the finished floor. Used over masonry walls, the walls are furred with wooden strips to which the insulating sheets are applied.

Loose materials manufactured for insulating purposes are of two types—those used dry and those which must be mixed with water. The dry loose materials are made of rock in fibrous form, curled glass, powdered diatomaceous earth, regranulated cork particles, or powdered gypsum. These materials are packed into the spaces between furring, studs, joists and rafters. The type required to be mixed with water is properly called cellular or aerated gypsum. This comes in powdered form, is mixed with water, and poured into the spaces between studs, furring, joists and rafters. The wet mixture expands and after drying out is found to be honeycombed with air spaces. The loose materials vary in weight and are nonstructural.

Insulating materials of the semi-rigid board class are made in sheets composed of compressed cork, rock, wood, wood pulp, sugar cane fiber, licorice root fiber or other similar material. These boards vary in their structural and physical characteristics. They are applied by nailing to one or both sides of studs, joists and rafters in frame construction, or placed on the inside of masonry walls. They may also be laid between the under or sub floor and the finished floor. Practically all of this type of insulators are suitable as a base for inside plastering and make it possible to eliminate lath on the inside walls and ceilings.

The 'spray method' consists of spraying especially prepared pulp paper flakes on the areas to be insulated, by means of a special spray gun.

In using any of the insulating materials mentioned the method of installation recommended by the manufacturer of any particular material should be followed to assure the best results.

The ability of a material to conduct heat depends upon its structure and density. Dense, compact materials convey heat more readily and rapidly than those less dense and light in weight. A material that readily absorbs moisture may be a good insulator when dry but becomes a poor insulator when wet. These materials must be protected maintained in a dry condition. highly desirable that insulating terials be resistant to fire, decay, ver and changes in structure and form. should also be sufficiently flexibl meet the varying conditions enc tered in the course of construction.

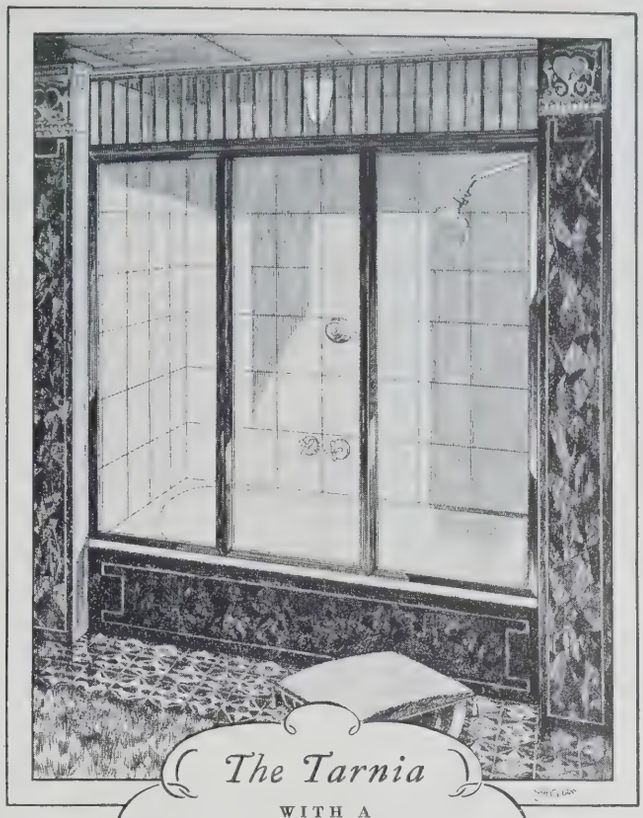
Insulating materials are commerc available in different thicknesses in comparing the insulating valu various materials it is importan make sure that the figures are i cases based upon the *same thickne* determining the cost of using insul a number of factors must be consid All building materials have som sulating value which must be consi in connection with the special insul material chosen if the saving in the of the heating system and the y saving in fuel are to be accur determined. Another point to be sidered is whether other materials u ly required may be omitted, or wh the insulation means an added ma and additional labor. A sufficient t ness of any insulation material sh be used to secure the maximum be from the amount of money spent. every material bears an econom efficiency relation between thick cost and ultimate result—a matt be figured out by each individual owner in connection with his own ticular needs.

Roughly the thermal conductivi the various groups of materials (i.e measure of insulating value express the number of B.T.U. transmitte hour, per square foot, per degree ence in temperature, per one in thickness) lines up thus:

1) Soft flexible in sheet form 0.24–
2) Semi-flexible in sheet form 0.31–
3) Loose materials 0.26–
4) Semi-rigid in board form 0.25–
5) Other materials (data taken various sources):

Wood (depending on species) 0 1.10; Cinder concrete 2 to 3; Bui gypsum about 3; Plaster 2 to 5; 3 to 6; Glass 5 to 6; Limestone 4 Concrete 6 to 9, Sandstone 8 t Marble 14 to 20; Granite 13 to 2 values given in the above tabl based upon material *one inch thic*

Readers interested in having details may turn to the report o U. S. Bureau of Standards (Ci Number 277, April 19th, 1927).



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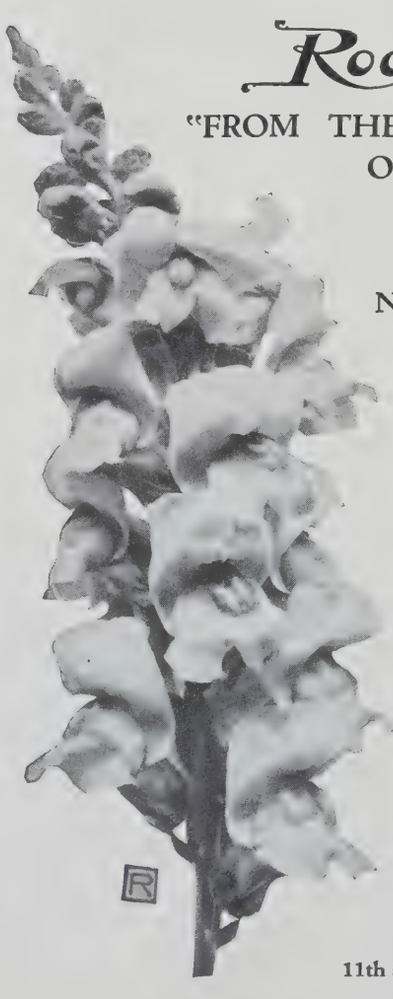

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ROCK'S

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The Woman's Room of To-day

Continued from page 39

Because of this and the awakened response of the modern manufacturers have come hardwood floors, colored to fit in with any color scheme and with electric polishing and waxing machines that keep them in health-giving cleanliness. The rugs for her bedroom may be soft and downy underfoot to afford the luxury every woman inherently craves—but they are washable rugs, rugs easily cleaned. The curtains for these restful rooms may be of voile, chintz, cretonnes, prints, or finest mohair, all washable and durable.

The walls are quite apt to be the most beautiful as well as most hygienic feature of the room—for whether painted, plastered or papered, they can be covered with a fine, transparent glaze that makes them washable so that, in case of illness, an absolute antiseptic condition may be easily secured.

Even the closets that once were only dark storage spaces have become deco tive as well as useful repositories clothing and bedding. In the mode closet there is not only an electric lig that flashes on when the door is open but the closet shelves are covered w gay glazed, easily-wiped-off chintz, w the walls painted and colored, a there are innumerable convenien for holding shoes, slippers, etc.

For the bedding of even the simpl room, there is such a wealth of practi luxurious material that the mod bed may be just whatever its own taste decrees. One of the newest ma rials for bedspreads is fine mohair. T material can be laundered and comes every wanted color, either plain or w stripes along its border. To ma these serviceable spreads are pl materials for curtains and dress table, so that the whole picture may complete.

Thinking Now for Fall Flowers

Continued from page 47

we do not rashly admit to our gardens those of the Sunflower family, a very few do add life and dash. To mention two, Helianthus scaberrimus var. Miss Mellish, 5-6′ August-September with large yellow flowers, and Helianthus decapetalus, 4-5′ August-October with large panicles, are good. The Heliopsis are similar to the preceding though lower and denser-growing, which fact may be kept in mind in the planning of large-scale landscape effects. A good dwarf one is Heliopsis helianthoides pitcheriana. With them may be planted the hardy Ageratum (Eupatorium coelestinum), or the great violet Ironweed (Vernonia noveboracensis) and the commoner forms of purple Aster.

Helenium, though yellow and similiar in general effect to the above, is a slightly more refined flower, and may be used in almost any garden not too small. The varieties show important differences. Helenium autumnale, 4-6′, is of bright somewhat greenish yellow; Helenium autumnale pumilum is a dwarf free-flowering sort; H. autumnale Riverton Beauty, 4-5′ August-October, is of lemon yellow with a black eye; H. autumnale Riverton Gem, 4-5′ August-November, is of old-gold suffused terracotta maturing mahogany red; H. autumnale rubrum 4′, September-October, is of rich wallflower red, the same tone as certain Chrysanthemums, looks well with either pink or blue and is a favorite background plant if staked erect.

Monkshood looks best in round clumps and though stiff when alone forms attractive combinations with other plants. Aconitum napellus 3-4′ July-August, the early one, looks well with Tiger Lilies; Aconitum autumnale, 4-5′ deep blue lasts from September until frost and is good with the creamy fragrant sprays of Artemesia vulgaris lactiflora.

Aconitum fischeri, 1½-2′, and its taller variety wilsoni, are of a beautiful light blue, lasting until quite late and combines well with yellow button Chrysanthemums or Helenium. Axonitum napellus Spark's variety on the other hand is almost the darkest purple found among flowers and may be lightened with feathery pink or creamy Cosm or the late white Phlox Etta's Choi

As soon as we start using annuals possibilities for colorful effects greatly increased. In theory the gar should be planted in such a way annual fillers are not needed but t use is an unquestionable advantag the upkeep permits. It is best to ev for each garden a simple scheme for annuals which are introduced wh ever space can be found.

One garden I know where blue yellow predominate earlier in the se has lemon Marigolds interspersed gray-blue Salvia farinacea and si blue annual Asters as an accompanir to bronze Helenium, second gr Larkspur, and Aster Climax.

Another garden which in Wis time is a combination of purple Iris orange Tulips, carries on into the with dark blue Plumbago, Verbenas Phacelia, royal purple Petunias, H trope, orange Cockscomb and Cale las, with a background of S farinacea, Primulinus Gladiolus, M bretias and orange African Marigo

Combinations of annuals appli to the long border or small garden *Bronze and blue;* tall Ageratum, S patens, edged with dwarf maho French Marigolds.

Blue and gold; pale yellow Calen and dwarf Ageratum.

Purple and buff; dark purple Pet and cream-buff annual Phlox in of tall Mignonette.

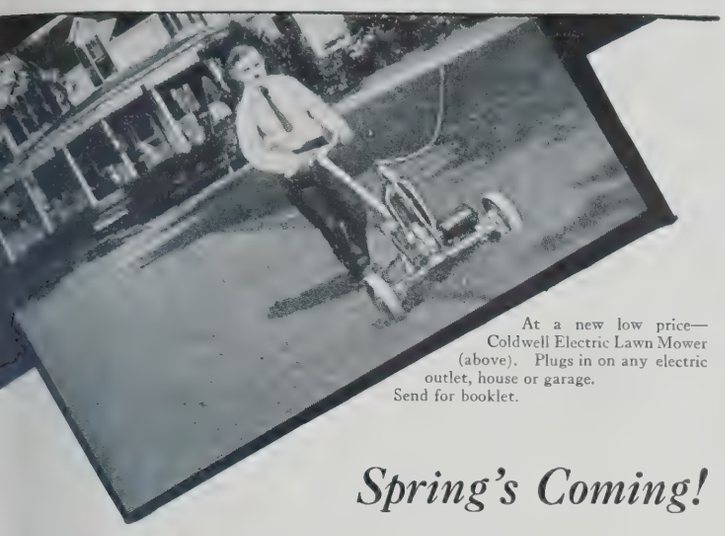
Violet and deep red; lavender Grace, with deep red annual Heart of France.

Pink and blue; Rosy Morn Pe with Swan River Daisy; the col of the pink is neutralized by the blue.

Lemon and pink; Rosy Morn Pe and dwarf lemon Snapdragon.

Salmon, apricot, violet; lavender (Arctotis grandis) with Salvia fari and Gladiolus primulinus hybrids, with Heliotrope, planted lavish make an effect.

White—and be sure to have some Alyssum for it lasts and lasts, winter is almost here.



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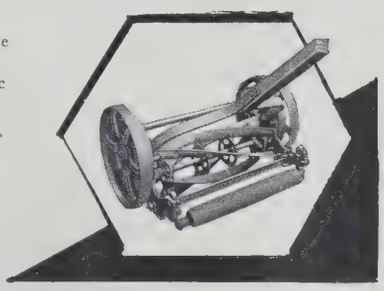

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SHOP WINDOWS OF MAYFAIR

By Shirley Paine

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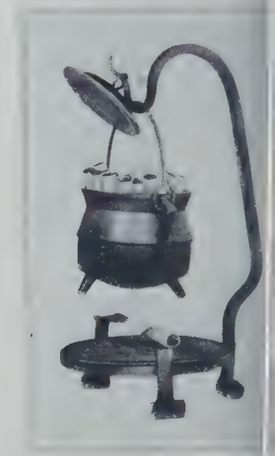

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Frame, pot-hook, and
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Carolina mountains; the
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on a fine bronze plated
and the unit is 30½" high
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painted by a well-known
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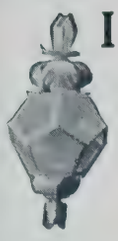

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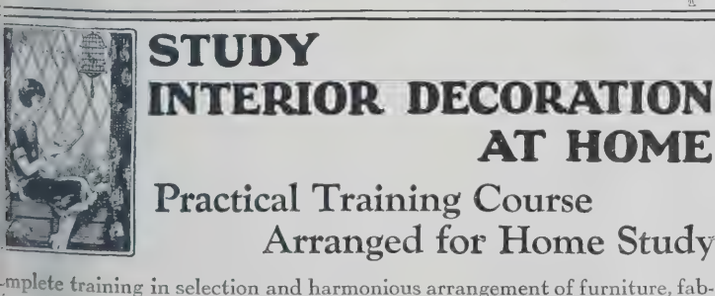

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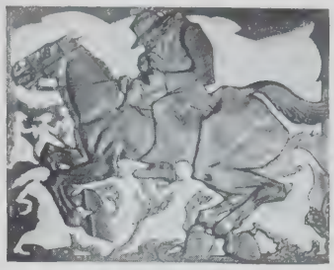
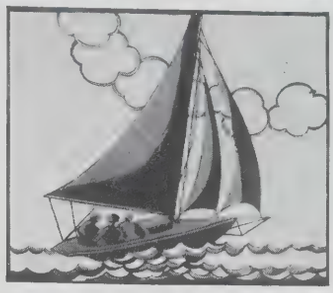


The upper iron plaques are two out of a serial of five illustrating Schubert's famous song, *"The Erlking"* After studying rider, child, and horse, close your eyes and in looking at them again concentrate on the white background.

Size: 13¼" x 10½" ea. Price each $8.00. Complete set $40.00. An artistic ornament for your Music Room.



"Sailing" is another attractive Wall-Plaque Size 10" x 8½". Mounted on light background ready to hang on wall.

Price, $4.50.

A gift, well appreciated by your golf friend. Size 7¾" x 5½". Mounted on light background ready to hang on wall, splendidly executed in design and finish.

Price $4.00 each.
$7.50 a pair.

A beautifully finished wrought iron fern-stand. Vase in hand hammered bronze.
Price $125.00

Wrought iron fern-stand. flowers and scrolls hand forged, a masterpiece of hand-forgings. Price $285.00

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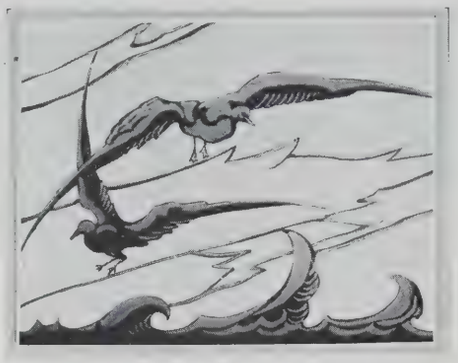

Exquisite beauty in cast iron! Another Boston item to delight you this month—"Seabirds," by Dr. Gunther Goundmann, in a remarkably executed wall plaque mounted on cream-colored birch, ready to hang; also effective when hung on light walls as a silhouette. Size 10½" by 8½", but $3.50 postpaid

HOW MUCH DO YOU REALLY KNOW ABOUT INTERIOR DECORATION?

MORE and more intelligent Americans are seeking correct information about decorating their own homes. Not only is it far more fun, but it is becoming quite *passé* merely to give architect or decorator *carte blanche*, and then meekly accept without a murmur whatever he sees fit to inflict upon you. One of the foremost schools in America has offered us its coöperation for the benefit of our readers who would like to give a little of their spare time to receiving this fascinating kind of instruction, or who would like to enroll under its comprehensive home course. Either forms an ideal and happy way to get practical facts, not merely printed theory and musty ideas culled from books. One does not have to enter the profession in order to derive intense satisfaction from such knowledge. This school is formally chartered under the New York State Board of Regents; instructors, artists, and writers of the courses are masters of their profession. Fees are very reasonable. A brief résumé of a few of the courses includes: A Practical Training Course; An Advanced Professional Course; Course in Decorative Design; Workshop and Special Classes; Special Summer Course during the vacation months; Home Study Course; European Study Course; and finally a Paris Prize Scholarship. Being a decorator myself I can vouch for the value of thorough instruction from competent teachers; and from a straight business standpoint, it is very hard to go far in the profession without such a background. Write me for booklets, rates and full details.

A modernistic hand-wrought wall pocket for ivy, flowers, cactus, or what have you. Refreshing color combinations of green, orchid, or yellow, so cleverly fashioned as to harmonize with any decorative scheme. Height 18", width at base 10"; an unusual piece and at $9.75 little short of a discovery! Postage extra

Here we have the most startling value in an upholstered piece shown in any magazine this month. A big Colonial chair, all hair filling back and sides; finest white down loose cushion; maple, walnut, or mahogany legs; and covered in your own choice from dozens of chintzes or cretonnes, $65. For shipment anywhere, add $5 for crating at cost. There's no "cover charge" for upholstering in your own material, and figure 5½ yds. for 50" material; 7½ yds. for 36"

Early American Reproductions

This *Tavern Table* is an exac copy of one probably made b tween 200 and 250 years ag we recently uncovered in th attic of an old New Englan Homestead.
The *Maple* legs are beautifull turned; and with the stretch ers, form a base that is in th best possible proportion for th large *pine* top with its excep tionally fine overhang. Th finish is of the mellow tones age. The size, 21" x 34", h 22½" high, makes this tab convenient for a side or en table, or for tea. The pric freight prepaid, is $48.00.

Send 10 cents for booklet on Ea American Reproductions

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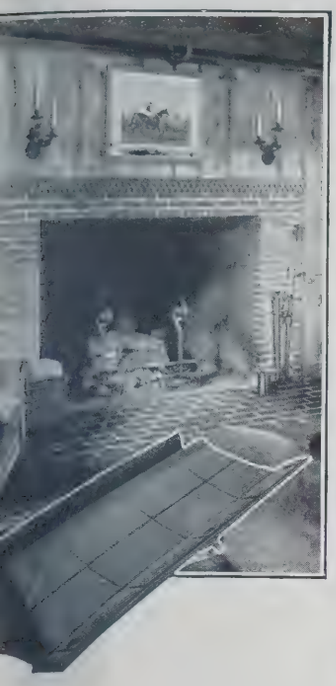

ONE CHILLY NIGHT

MOKE — SMOKE — smoke. What a fearful and danger- experience to have your fire oke. What a disappointment have invited your friends to her 'round your cheerful rth and find at the very last ment that your fireplace is working properly.

e charming fireplace illustrated s designed by the architect — Kenneth G. Reynolds — for own home. Wishing to be ured of a fireplace that would rk satisfactorily, Mr. Reynolds cified the scientifically de- ned Covert Damper and Covert oke Chamber.

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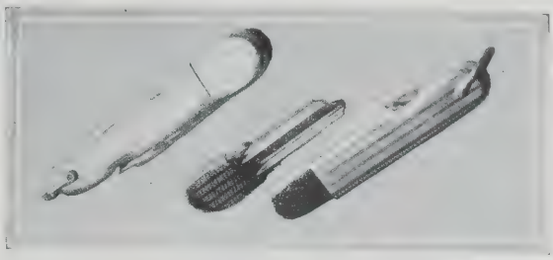
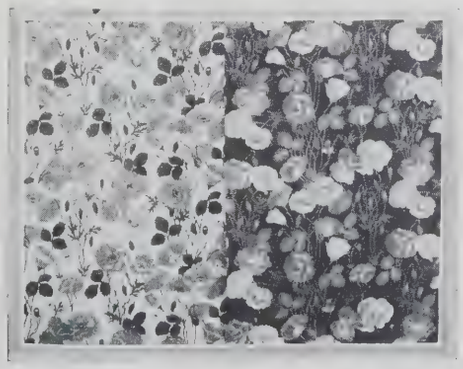


Nowadays when one fares forth of an evening why cart around a book of keys as fat as a valise or fumble in dinner jacket for embarrassing minutes for the elusive bit of brass which rules that situation. This unit combines a fine green gold filled engine-turned penknife with Yale or Corbin key. Price $7.50 postpaid, includes cutting key after present one

And now a famous weathervane company offers quaint footscrapers for these muddy days. The elephant is of heavy black iron, 12" long, weight 3¾ lbs., both footscraper and doorstop having rubber plugs which conceal the screw holes when used for the latter purpose; price $4. The others can also be used for doorstops. The dog is $6; the Contrary Mary, $6.50—frame size 7½" long, 6¾" high and weight 4 lbs. Postpaid east of the Mississippi

Sportsmen attention! The portrait of your favorite dog, cat, polo pony, yacht, airplane or any faithful companion done in oils by the brilliant artist Cyril Godainoff from your own photograph of the subject. He haunts dog shows, polo matches, yacht races. His work is full of action, true to life. Small cedar cigarette box, $15; large humidor box, copper lined and finished in any background color of lacquer, $40. Send checks and photos to Shirley Paine

There is just one way to prepare a grapefruit, take it from an old Floridian—cut out seeds and core, loosen the pulp, but do *not* cut loose the bitter partitions between the cells. This corer works like a flash, removes waste material without spattering juice, and is readily cleaned; price $2. The scalloper trims up the edge of the rind to a sprightly pattern which helps whet the appetite through pleasing the eye; price $1.50. Both items are rustless. Delivered 100 miles of N. Y.



Gaily suggestive of open fields with their rising tide of color, is "Springtime," a poppy-patterned chintz with an occasional wild strawberry tucked in for good measure. There are varied tones of scarlet, yellow, and orange on a black ground, or a more conservative but still cheerful *cafe-au-lait* on salmon, apple green, or a rich blue. In this most delightful of the new chintzes the rich blue-greens of the foliage prevent any of the brilliant colors from being garish. In 36" width, $1.50 a yard, postage extra. For sample cuttings of any other new materials you may wish, just write Shirley Paine and command her

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The ideal home! It may never *all* come true. But without waiting for it, in your present or forthcoming new house, you can capture part of its Dream-Romance and Charm with the rugged beauty of Forged Iron Hardware by McKinney. Created by the manufacturers of the famous McKinney Hinges, every piece is authentic in design, based on the best work of English, Spanish and Colonial craftsmen. The finish is rust-proofed, marvelously beautiful. Hinge straps, graceful handle sets, lanterns with crackle glass, door knockers, foot scrapers, everything you need is available through regular Builders' Supply Dealers everywhere. If you love the unusual and shrink from the commonplace, McKinney Forged Iron Hardware is for you.

A beautiful hardware trim — McKinney knob of English Antique Hand Hammered brass and escutcheon of forged iron

For beautifully illustrated catalog showing various suggested applications, write to Forge Division, McKinney Mfg. Co., Pittsburgh, Pa., *Makers of the Famous McKinney Hinges.*

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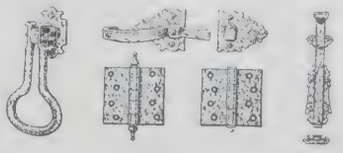
McKINNEY FORGED IRON

Below: Drop ring handle, lever handle, steeple tip hinge, button tip hinge, surface bolt.



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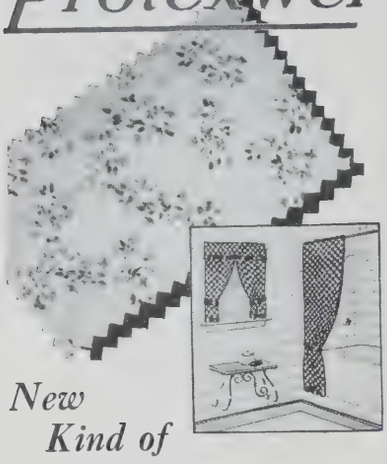

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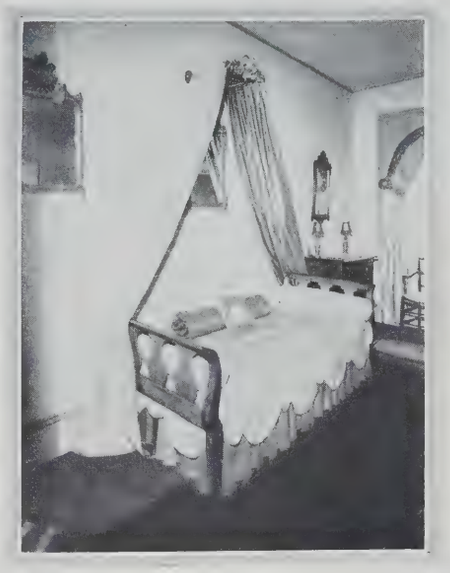

Here is an Early Colonial day bed reproduction from Boston, having all the tasteful charm of Beacon Hill. Your choice of maple, mahogany, or walnut for the unusual price of $60. The size is 6′ 2″ by 32″; estimates on mattresses, bolsters and spreads gladly given. The lovely hand-carved French finial ornament in gold leaf is $30. In the background are two old Flemish pewter whale oil lamps, wired complete with pewter shades, $25 each

Boston is coming into its own this month! This Paul Revere lantern is made, most appropriately, almost under the eaves of Old North Church by the lighting fixture department of the fine Industrial School studios there. Through special arrangement we have been given a price of $8 unwired and $10 wired for this faithful reproduction. Delightful for lodge gates, porches, or landings

Metal window cornices are adaptations of the sculpture of the Middle Ages. They impart to the whole room a distinct individuality which is becoming more and more sought after by those who know good decoration. Prices compare well with fabric valances; effects are stunning. For each 13″ section: ormolu gold, $3; silver, $3.50; antique gold or brass, $3.40; antique silver, $3.75; Italian, $5.50. Checks and inquiries to Shirley Paine

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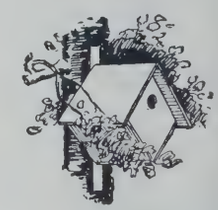

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DESTROY these unsightly and destructive pests in your den with Snarol, the proved ntific method that has won approval of thousands of me owners, gardeners and serymen everywhere.

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These little gems furnish the finest material imaginable for cutting and table decoration. They bloom from early in the season until frost, while as cut flowers they last three times longer than those of the larger types. We offer a choice assortment of fourteen distinct varieties of the most charming colors and shades, twelve of which are illustrated in colors in our Garden Book.

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Special Offer: One strong root each of the 14 Dainty Pompon Dahlias for **$5**

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contains 224 pages and ten color plates of the best of everything in Seeds, Plants and Bulbs; seventeen pages of the book are devoted to Dahlias.

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is the title of a special catalog of roses describing over 300 sorts. It offers a wealth of information on how to grow Roses successfully and you cannot help but succeed with the sturdy, field-grown plants we supply.

We will be pleased to send you free copies of either or both of the above on application. Please mention this publication

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For year-round decorative value Rhododendrons cannot be excelled. In spring the wonderful colors; in summer the cool foliage; in autumn and winter the deep green relieves an otherwise bare landscape.

From our nurseries we supply five varieties of Rhododendrons in sizes adapted for every purpose. From our stations in the Virginias and North Carolina we supply collected stock for large plantings.

Our booklet, which gives full information, will be mailed on request to interested planters who reside east of the Mississippi River.

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1109 Bryant Street **Stroudsburg, Penna.**

Why "Waite" for Dahlias?

—because here you get the finest in the land, all Certified by the American Dahlia Society, carefully packed and promptly delivered.
"Waite's Dahlias" for years have been leaders in the various classes of this most popular flower.

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	Tubers Each
JERSEY'S BEACON. (Dec.) A spectacular exhibition dahlia the color of which is Chinese scarlet, with a paler reverse, giving a two toned effect. Large globular flowers, fine stem and foliage	$2
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JERSEY'S FIANCEE. (Dec.) Rose-pink, petals tipped gold	5
JERSEY'S SUNSHINE. (Dec.) Light yellow	5
JERSEY'S JEWEL. (Dec.) Soft mallow pink	2
JERSEY'S GEM. (Dec.) Lavender-pink	1
JERSEY'S RADIANT. (H.C.) Orange	2
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WREXHAM DELPHINIUMS

These grand hybrids are produced and bloomed on my own grounds, from imported English seed. All inferior types and colors have been ***"rogued"*** out. Every flower spike is unique in color, perfect in form and of giant size.

Price. Pot-Grown Plants.
Per doz. $6.00; per 100, $40.00
Field-Grown Plants. doz. $8.00

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INCORPORATED (Box G)
EATONTOWN, N. J.

Colors that Enliven Autumn's Dull Days

A trio of new plants, here presented, bringing to gardens and borders colors that are always needed when the year is on the wane. Tested in our grounds and elsewhere, we recommend them with the utmost confidence in their hardiness and value.

Chrysanthemum Barbara Cumming. Double; clear yellow, shading to orange-bronze center. Begins to bloom in late August, and continues until heavy frosts. Plants from 3 inch pots 50 cts. each, $5 per dozen. Field grown plants 75 cts. each, $7.50 per dozen.

Gypsy Girl is another new, single Hardy Chrysanthemum. Crimson, shading to chestnut-crimson; begins flowering in October and continues several weeks. Plants from 3 inch pots 50 cts. each, $5 per dozen. Field grown plants 75 cts. each, $7.50 per dozen.

Hardy Aster "Queen Mary." English gardeners say this is *the finest Aster ever grown.* Color glistening blue, from early October on Flowers 2½ ins. across in great quantities. Plants from 3 in. pots to bloom this season. 50 cts. each, $5 per doz.

The Spring issue of our Catalogue

features other new and popular plants which have proved their value. There are several new Phlox, new Gaillardia, an improved Poppy, with other novelties. If you wish a copy please write us.

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Decorative yet decidedly useful is this desk that reflects in its rich woods the soft colors of the chintz curtains. Jane White Lonsdale, Decorator

Comfort for the Man At Home

Continued from page 38

wardrobe on his. While this much consideration can and most certainly ought to be devised for every man who occupies a shared bedroom, it is still far below the standard of comfort which the woman insists upon for herself. He too needs some spot in his home which he can call his very own, to which he may retire when he wants, and even lock the door against outside intrusion.

Your man's room need not be standardized like the den of some years ago, with its mission furniture, its Indian rugs, its antlers on the walls. It may be as individual as himself, expressing any characteristic about him—his interest in business, his taste in art, his attitude toward society. His own personality is the thing to be considered in the planning of his room, and everything should be done to make it attractive to him.

As elsewhere, the clever use of environment may be invoked as a valuable agent in creating contentment. If he is surrounded by glaring white plaster walls and shiny yellow oak furniture, he will obviously have a less agreeable outlook on life than if the walls are mellow, with a few good pictures to make them intimate and personal, and chairs that are not only comfortable but pleasing to the eye. A sturdy simplicity is perhaps a man's ideal in home furnishing. Nothing fragile, fussy or easily knocked over will ever win his commendation.

The man prefers a single large rug to a number of smaller ones. The effect is more restful, and the chances for tripping less. Footstools are a good idea, else he will be constantly yielding to the temptation to throw his legs over another piece of furniture. A heavy and substantial stool is advised; for one that slides away from underfoot is worse than none at all.

Since most of his home time is in the evening, be sure the night lighting is adequate and that the color effects are pleasing after dark. Artificial light often makes ugly or depressing combinations by distorting colors that are quite satisfactory together by day. Shades of red, deep blues, rich browns and olive greens are always popular. Pink, mauve and other delicate colors are not apt to interest him at all. Plain, direct co are more apt to please than mixtu

If the man uses his bedroom sitting-room, or a sitting-room as a room, one of which is sure to ha where space is not unlimited. he probably like a daybed.

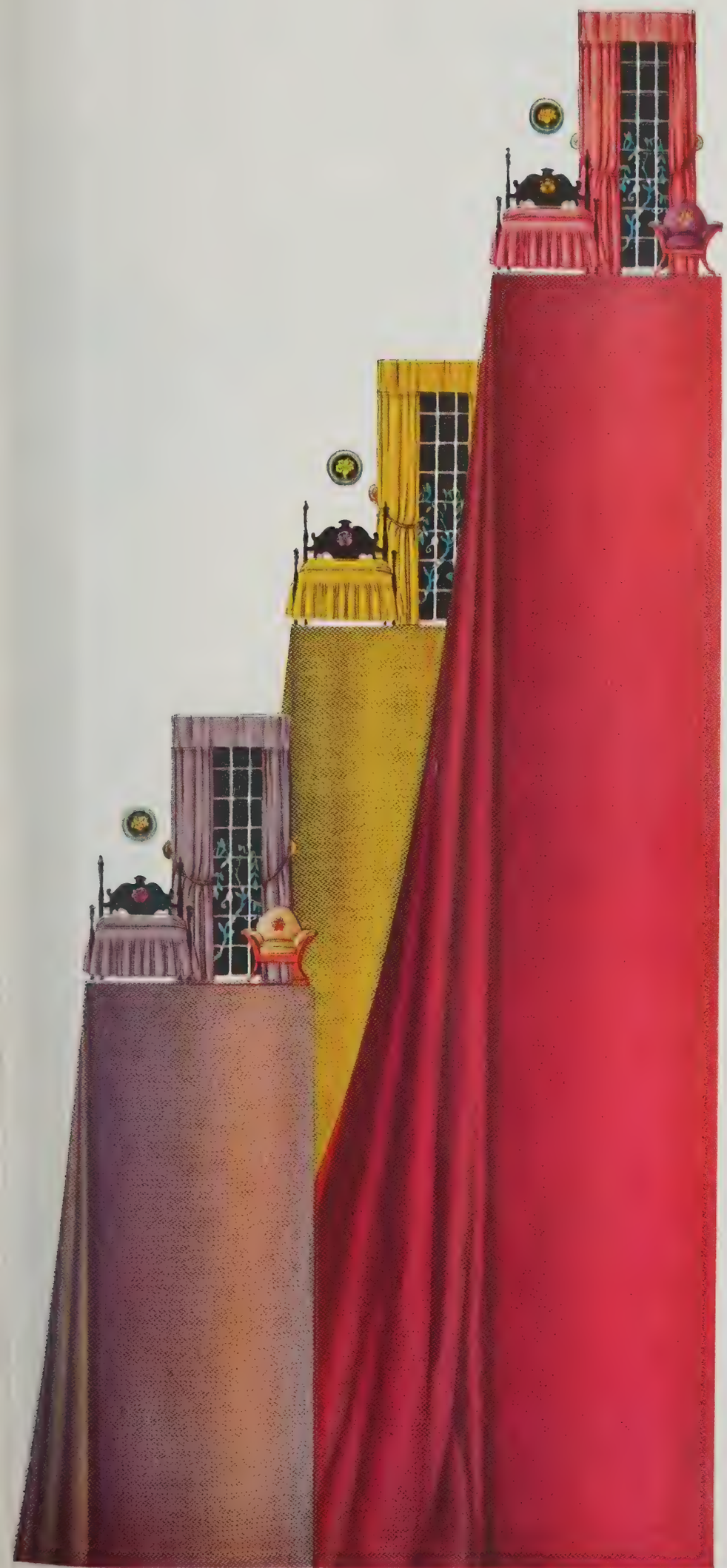
However, if the conventional be preferred, the services of a large d rative screen may be enlisted. What the type of bed, let it be large and ro and beside it have a table equipped lamp, telephone extension or what little attentions gratify the occup A chifforobe for the convenient dis of clothes is an indispensable. This be screened if desired, though wher furniture is dignified, it is not neces

Perhaps nothing will so win the h of a man as shelves and closets th can call his own and that are entirel cure against feminine invasion. It is possible to utilize wall space fo construction of built-in shelves tables which may be concealed be doors. Men often have a tendenc accumulate things that far from tributing to any decorative fe quite detract from any aspect of

The writing table should be as r as space will permit. A mincing desk offers scant comfort. All its a sories should have utility. The des should consist of only those few that the man really wants.

Generous reading facilities are portant. A little table next to the chair should have room for a few and smokes. A window seat ma made an attractive corner. A boo or open shelves are welcome, and h the man if these are placed at side of a fireplace that is his very The mantelpiece may have a good whose hands can be seen from all of the room. Curtains should be so that they may be drawn back. do not take kindly to draperies cannot be pushed aside.

The decorative touches may b in small bronzes, in book ends, in ing things, and in well selected li fixtures. Lamp shades should refle masculine quality of the room. beribboned and fringed effects prove decidedly disturbing. Parch shades on (*continued on pag*



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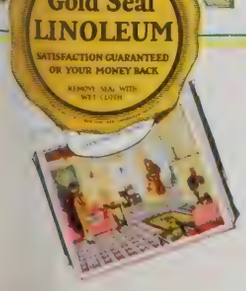

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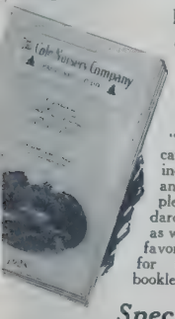

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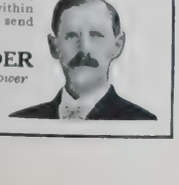

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Comfort for the Man At Home

Continued from page 96

wrought iron standards are simple and sturdy and generally satisfying. Stable mahogany stands with simple shades are also pleasing. Some floor lamps have a circular shelf midway for smoking accessories. Metals will generally please him better than breakable porcelain or glass. Wrought iron, burnished copper, hammered brass and others suggest themselves.

Marine pictures serve many men as the ideal room decoration. The lure of the sea is seductive to those who have known her in any of her varied phases. The sea colors have a strong tendency to cool a room and thus increase its apparent size. Models of ships are effectively seen on mantelpiece or table. Old decorative maps framed and hung on the walls, are a colorful and interesting accessory.

In his own room at least, the man should have every reasonable liberty accorded to him. If he likes cards or chess, let there be an easily accessible table, and chairs for his cronies. If his work or his hobby requires space at home, set some aside in his room where he may carry forward his interest.

Respect the way he places his own things. If he likes to putter with painting and has wet canvases spread out to dry, do not stack them together 'to put the room in order.' He is quite right not to appreciate tidiness at such sacrifice. Such things are trifles, but they can become significant—they symbolize the difference between harmony and discord.

Tying Your House and Its Grounds Together

Continued from page 44

building is urged but is of little value, for not only does one scale not fit every style of architecture but it ignores what is usually a very important consideration—the contour of the ground. In general the steeper the slope, the narrower the terrace. Good design follows good sense, and good sense is a matter of judgment, not geometry.

The placing of the house on the grounds is probably the occasion of the first meeting of the landscape architect and architect. As the planning progresses they meet again and again—at doors leading outside, through windows, and even at the coal chute! There is certainly not a congenial relationship between the house and the grounds when the coal has to be delivered in the garden. Previous coöperation of the architect and the landscape architect could prevent any such mistake. The cellar layout can usually be adjusted to permit almost any location for this generally necessary part of the home equipment.

Obviously the best position is close to the driveway and as near the service entrance as possible. The ash dump, or outside stairs to the cellar, in so far as is practical, should be concealed but convenient. In brief, the service portion of the house should not only be organized within itself, and in relation to the rest of the interior plan, but should be correlated to an equally well thought out arrangement of the whole property.

Through the windows and doors leading outside the grounds and their surroundings come to the house. When there is a good view we want to bring it into the picture and enjoy it from the living rooms. Or we may create vistas by building a garden, or making a shrub bordered lawn. In any case, if we would get the fullest enjoyment from these outlooks, we must consider them when facing the house on the site and when planning the interior. Windows or doors that catch attractive glimpses of the outside world are always delightful. Indeed they may be well given study so that they will frame especially pleasing compositions.

That part of the ground used for pleasure should not only be seen from the living rooms, but should be easily and pleasantly accessible therefrom. The ideal approach is by way of a terrace or else directly from the porch. A long stretch of lawn between the house and the garden tends to destroy the unity of the two, each seeming to exist quite independently of the other. It is especially undesirable to have to cross a road or part of the service area, because of the discordant note they strike, and because of the loss of privacy.

Among several purely practical matters which the architect and the landscape architect should discuss is the question of saving the top soil from the building site. It is usually well to omit from the house specifications any grading by the contractor except the stripping of top soil and filling to subgrade in accordance with a definite landscape plan. A clause calling for the removal from the property of all trash should, however, be incorporated. Otherwise, as is generally the practice, the contractor throws all the old plaster, brick bats, pieces of pipe, wire, etc., around the foundation, covers the ensemble with a few inches of a mixture of sub soil and any remaining top soil, carefully rakes this over so no revealing pieces stick out, and goes his way rejoicing. Imagine the delight of the unsuspecting gardener when he starts to put shrubs around the house and uncovers this rich store!

The artistic unity of the house and its surroundings is accomplished mainly by the planting, although terraces and walls are often very important elements in the picture. Much of the charming blending of buildings with the countryside that we see throughout Europe, and especially in England, frequently is due to the picturesque walls that enclose their gardens or screen the service yards. But the excessive cost of masonry work prohibits the extensive use of this attractive feature in this country. Proper planting has great influence on the appearance of a building. It will enhance good architecture, and, in many cases, it can redeem, to quite an extent, poor architecture. Well designed planting is a matter of artistic eye and good knowledge of the materials used.

Here are the underlying principles for any who are artistically inclined and want to try their hand. Remember that the building is the main feature, not the plants: they must be subordinate. Avoid too much variety of material, and spotty placing of it. Consider the future and don't put young forest trees directly under windows, lest, some day, true to their habit of growth, they proceed to shut out most of the light.

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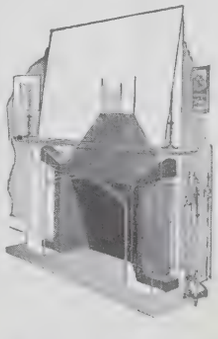

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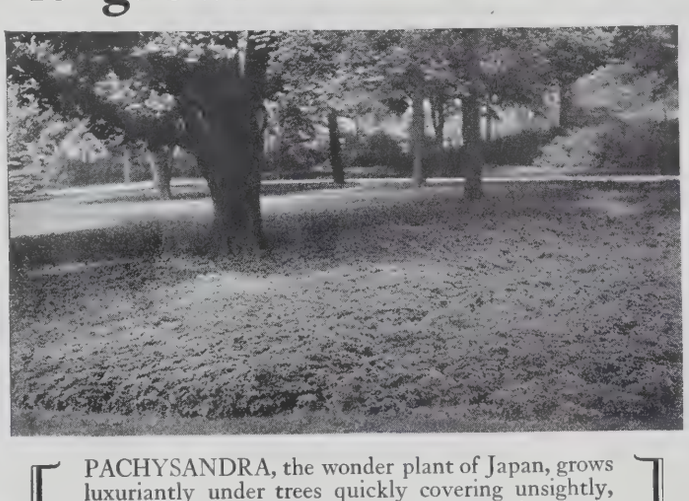

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The Fascination of New Roses

Continued from page 49

for the occasion, and when the variety is placed on the market, the following year, generally, the price is governed by the award. This award has no relation with the characters, good, bad, or indifferent of the plant, and it is awarded less to the Rose itself than to the hybridist as an encouragement.

Bagatelle and Saverne are, to my knowledge, the only two novelty Rose contests on the European continent, where the plants have to be in the public Rose garden for two years before the meeting of the jury; bloom records and frequent observations made during these two years are read to the jury and the decisions are then based not only on the bloom but also on the plants. The first season a tentative score is given, but many a Rose that scores high the first season falls behind in the second.

Every hybridist, professional or amateur, tries his luck at the new Rose contests, and even if not classed in 'the money,' his production will be seen by a large number of people, some of whom will dissent from the Jury, and prefer this or that Rose to the gold medal ones. If not named yet, some wealthy patron will request the Rose to be named after him or her, paying an adequate premium for the privilege. The year I was on the Bagatelle Jury (1925), four varieties, at no time even considered for any award, were, after the contest, bought and named by admirers, thus compelling the hybridists, who might otherwise have discarded these seedlings, to place them on the market.

M. Pernet-Ducher told me the stories of how Mme. Caroline Testout and Prince de Bulgarie, two seedlings he had already marked for discard, were saved to the public: Testout was neglected by him because he had better things in view, and Prince de Bulgarie as being too similar to its twin, only recently dedicated to his friend Antoine Rivoire, but these two distinguished persons, visiting his test gardens, fell enamoured with these two seedlings and insisted (money talks!) on naming them.

It is also fashionable to assail the foreign descriptions and even characterize them as deliberate falsehoods, yet, I am quite sure, being personally acquainted with many of these describers, that their descriptions are written in good faith and are *true in their particular locality, latitude or climate.*

The Rose of to-day, superhybridized as it is, varies in performance under altered conditions, and if we expect a universal Rose that will vary little in the north, south, east or west, high or low latitude, and under divers pleasantries of the weather man, a Rose of which the description in Canada match its behavior in Florida, the us limit our choice to the prim types.

A Rose, or any hybrid flower, and raised under certain condit may either deteriorate or imp when removed from those condit It has to be acclimated, and unde vegetative readjustment which s times takes several years. It may take a long time before it become quainted with a different unders since our overseas friends do not üs same species as we do, their n Briars (canina in several varia including laxa, on the continent, Sweetbriar in the British Isles) parently filling their needs. The pean descriptions are generally but do not fit the same Rose over any more than the description o sky at Naples would fit the sky of burgh. Some European Roses are k to have improved in America.

Those descriptions should be strued only as indications of the ge traits of the Rose. A better unders ing of sub-classifications would help a more judicious selection and save disappointment. One of the fa Irish raisers described a certain v as 'the best *exhibition* rose his firm ever produced' and so it is, as it is ning gold medals and blue ribbo every rose show; yet it has pro dismal failure as a *decorative* Ros which use it it was not intended long ago that particular descriptio quoted as an example of misrep tation—but that word 'exhibitio left out, which omission entirely a the description.

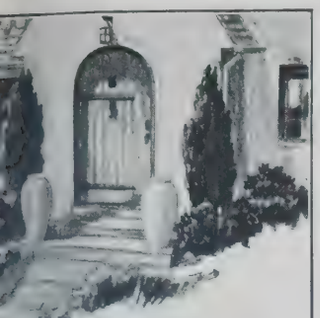
The disease situation is also different. We are here greatly tro with mildew, black spot, rose c and what not, but in Europe, they but little of them. Mildew in c sections, under abnormal cond yes. But black spot and cank hardly known. When a raiser sa introduction is disease proof, he his climatic conditions are not fav to fungus. We here accuse the P ana Roses of being a host to blac but in Lyons, France, the birthpl the Pernetiana strain, they do no what black spot is.

To judge a new Rose fairly a praise it accurately is a matt years of observation. A new Ros not show its mettle, and we canno what is in it, until plants hav 'made in America' on America derstock from wood grown ou in America, and until this is foreign Rose novelty should be accepted or rejected, but just tr

Experiences With Some Newer Roses

SPENCER S. SULLIGER
Vice-Pres. American Rose Society

DURING the season of 1926 and 1927 a very interesting and informational trial was had of six of the newer Roses sent me by Mr. Fred Howard. They were planted on February 11, 1926—much later than I usually plant my Roses—as described in my article on, 'How I Plant My Roses,' in GARDEN & HOME BUILDER, October, 1924. It is hardly needed that it be stated that twelve ounces, and not twelve inches, of sheep guano wa They were cultivated and fed corded for 1926 in the article, 'R Feeding of Roses,' in GARDEN & BUILDER, June, 1927, page 421. trial of these Roses in 1926, budding nor spraying was done, 1927 both were done. Twice dur winter of 1926–27 bordeaux mixt used and during the summer of 1 soap-nicotine (*continued on pa*



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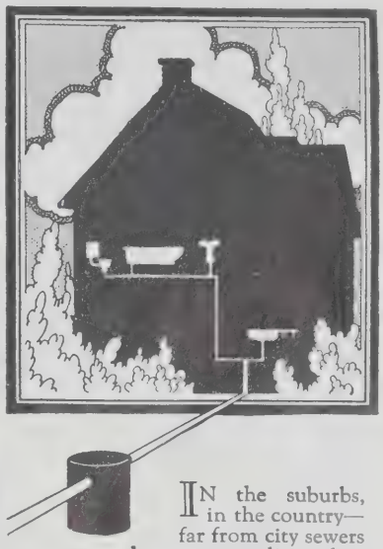

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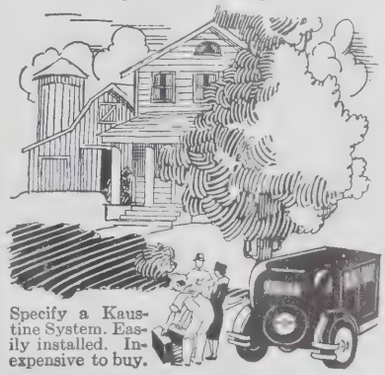

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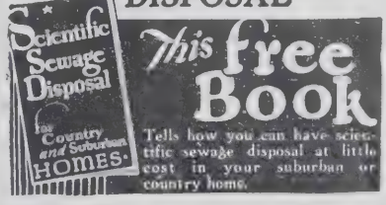
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Rose Mrs. Lovell Swisher, H. T., delicate salmon-pink with flesh color on edges is a Californian seedling with Souvenir de Claudius Pernet as one parent

Experiences With Some Newer Roses

Continued from page 102

spray for aphis and the bicarbonate of soda spray for mildew were used.

Josephine Thomas. H. T. (Howard & Smith, 1924). This is the Rose selected by Capt. George C. Thomas, Jr., Beverly Hills, California, and named in honor of his daughter. It is described by the growers as follows: 'soft, clean shade of apple blossom pink, the base of the petals stained rich orange yellow.' In the *American Rose Annual*, 1925, page 189, it is described as 'Orange salmon, shaded to cream flesh.' Moderate growth and moderate thorns, both as to size and number. The bloom is striking in that it holds extra well a high pointed center, with lasting color and form, either on the bush or when cut. Freedom of bloom; petals and petaloids 90; long stems, with abundance of bloom on a single stem, all go to make Josephine Thomas a very promising garden Rose. Slightly fragrant. On July 10, 1926, I cut one stem having on it five good blooms and a number of buds, and on July 22 I cut a stem which had nineteen fully open and partly open buds on it. This last cutting held color, form of bloom and foliage for over forty-eight hours. Despite some unfavorable comments about this Rose, in response to careful cultivation, disbudding and summer pruning in 1927, Josephine Thomas gave some fairly good exhibition blooms, but it is essentially a garden Rose.

Arthur Cook. H. T. (McGredy, 1925.) My notes for 1926 read: Seemingly not much, if any, real addition to the rose world, yet with some characteristics that excite one's interest and curiosity. The color is a deep, velvety crimson, shaded a very dark purple. Delightfully and strongly fragrant; olive-green foliage; moderate growth and few thorns. A peculiar, semi-pyramidal bloom, when out in full, which lasts well, but the color blues under the sun. Petals and petaloids, 64. Now, along comes that splendid publication (I take it the pride of its gentlemanly editor, Dr. McFarland)—the *American Rose Annual* for 1927, and on page 202 I read: 'Its bloom is very full and o form. It did not burn in the su (Germany.) Then on page 209 'Arthur Cook has, at most, bac flowers and had better never ha the sunshine.' (Holland.) So the are! Feeding, cultivating and ding, as the peculiarities of th seemed to me to demand, durin brings the verdict that Arthur C not enough merit to commend it rose world. I may decide to kee my 'on probation' list for on year.

Angéle Pernet. H. T. (Pernet-D 1924). Here we certainly have tinct and novel color, not at a to describe. One grower says 'vivid orange-yellow, shaded fier reddish apricot'; while one A dealer calls it 'tango color,' w that is. My own notes read: ' red, edged chrome yellow, with petals golden yellow'; which, I a sure, does not correctly descr color. Petals and petaloids, The first bloom was cut on M 1926, and it held its fine color fo eight hours. Fragrant. Bush is m in growth, but symmetrical, wit and large thorns. No mildew no spot in 1926. The test of 1927 materially change the 1926 resu put Angéle Pernet on my list c to be grown for some years, at

Mrs. Erskine Pembroke-Thom (Howard & Smith, 1926. Colombe × Souv. de Claudius The growers describe this Rose as follows: 'Long buds, perfectly formed, high-centered bloom; clean deep canary yellc no shading. Free flowering and ately fragrant. Attractive foli sistant to disease.' My not Growth is moderately vigorc makes a shapely bush. Color and bloom is fully as good as Mabe with far more vigorous growth Thorns medium in number a Petalage ranging 25 to 48. C foliage hold well, on bush and c bloom cut on (*continued on p*

he Outstanding Dahlias for 1928

Galli-Curci (Decorative)

Our own Sensation

ected at the 1927 Atlantic City Show of Dahlia Society of New Jersey by Mane Galli-Curci, to bear her name. arded Certificate of Merit at Philadelia in 1926 and again in 1927. Awarded ld Medal at Camden 1927 Show as Best disseminated Seedling. Color brilliant mon-orange with gold suffusion and an usual amount of gold sheen and lustre.

Color Sergeant (Decorative)

r sensational introduction of 1926. No or like this salmon bronze. Many times ze winner in 1926 and 1927.

Lady Lyndora (Decorative)

ery visitor at our gardens during the st season was tremendously impressed h this beautiful flower. Won Gold dal as Best Undisseminated Seedling, nden, 1926.

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nner Garden & Home Builder Sweepkes at last New York Show.

My Maryland

nner as Best Undisseminated Seedling Atlantic City. Also first in Undissemted Hybrid Cactus Class at New York.

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al giant among the new dahlias. Highecommended as an exhibition flower.

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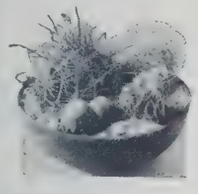

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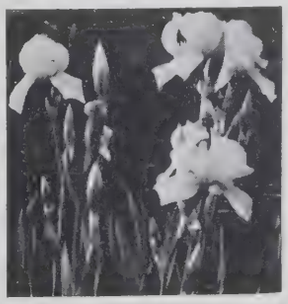

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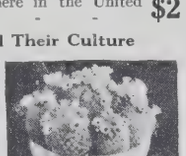

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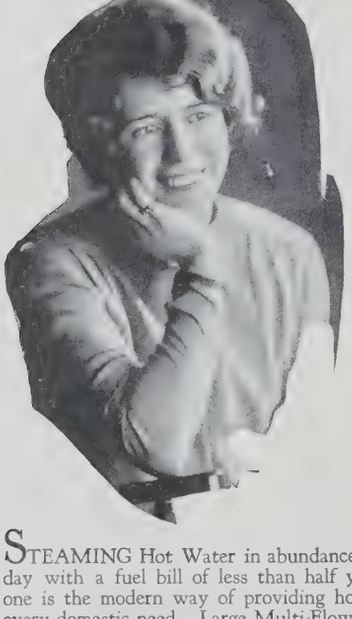

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JOHNSON WATER GARDENS
Box G3 Hynes, California

Experiences With Some Newer Roses

Continued from page 104

July 14, 1926, which is a late blooming date for Western Washington. Unfortunately, the first blooming date for 1927 was not entered, but it was late. This otherwise fine Rose mildewed badly and I actually suspected that this élite lady was the source of mildew on other near-by Roses. I did not use preventive or cure-spraying for mildew in 1926, but did so in 1927, with fairly satisfactory results. Based upon the test for these two years I could hardly tell of the really excellent qualities of Mrs. Erskine Pembroke-Thom better than to quote from my notes as follows: Cut a finely-formed, half open bloom on October 22, 1926, of a beautiful bright color. The bloom unfolded in the house on October 23. Petals gracefully reflexed, with the color clear and bright until the petals dropped. Shows center a little sooner than roses having more petals, but even when open and showing stamens, the bloom held to a good form and was attractive.

Feu Joseph Looymans. H. T. (P. J. Looymans & Co., 1922). Long, pointed buds, with large, fairly full, bloom of bright yellow, with vivid apricot tints, particularly brilliant at center of bloom. Petals and petaloids, 29–40. Cut first bloom on May 31, 1926. Cut six fine blooms on July 22, with beautiful color, which held to the last—more than seventy-two hours. The foliage does not appear to be extra good, but during my absence from home the work of the little green worm did great damage, which may be responsible for the unsatisfactory foliage of 1926. During 1927 careful attention was given to this Rose with very favorable results both as to the foliage and the bloom. Without question, Feu Joseph Looymans is a real addition.

Mrs. Lovell Swisher. H. T. (Howard & Smith, 1926. Unnamed seedling × Souv. de Claudius Pernet.) A very true description of this promising Rose is given by the growers, as follows: 'Large, pointed ovoid buds, deep coppery salmon; opening to double, moderately fragrant bloom of delicate salmon-pink, with flesh on edges. Vigorous grower, with clean, bronzy foli resistant to disease and very flowering.' First bloom cut on Jun There is an appearance of fullnes the bloom far ahead of what the p age, which is 30, would indicate. abundance of bloom on one stem, attractiveness of color and excel foliage, make this a wonderful ga Rose. On July 22, 1926, I cut one s with eleven blooms and attrac partly open buds on it. By early budding and careful summer pru during 1927, I had a couple fairly exhibition blooms. It is a rose many and large thorns on heavy ca Some mildew and blackspot present late in the growing seasor 1926. But it must be considered the rose season of 1926 was chara ized by the presence of more mil than I have ever had in any o season, despite the fact that each had eight ounces of sulphate and n ate of potash, mixed, lightly dug in ground during the season. But it also be remembered that no spra for either preventing or curing of dew was done during the season 1927 a little mildew appeared in Au but was easily controlled with b bonate of soda spray. (One level t spoonful of bicarbonate of soda—ba soda—to one gallon of water.)

The result of the two-year testir these six Roses places Feu Jo Looymans and Mrs. Erskine Pembr Thom well in the front rank as desi exhibition varieties that are also be ful garden varieties and as cut bl I cannot determine which of the t the better. Mrs. Lovell Swisher is tainly a fine garden and general pur Rose, with occasional exhibition blo These three Roses ought to be in e rose garden.

Editor's Note: We welcome Dr. liger's account of his experiences his judgments on this group of n Rose varieties. Everybody wants b Roses and we shall be glad if any re who have tried out the novelties of Roses alone, but anything—wil us their experiences with them.

Alluring Rose Novelties for this Year

THE Rose still holds sway as the most popular of all garden plants, for was there ever a garden lover who did not grow two or three plants at least, and even the most unsophisticated home maker (speaking for the gardener's point of view) has a climber or two on porch or trellis. No one can guarantee the behavior of a new plant in a new environment—and some of the old ones give us enough bother on that score indeed. But there is this advantage: that the selections offered have been chosen out of a multitude by expert growers after study and observation, and they come before the American amateur with that endorsement.

The crop of new varieties this year is comparatively large and covers the whole range of this enormous family from bush, trellis, dwarf, everblooming, and shrubbery types. The tendency toward unusual and brilliant color blends which began some years ago with the first Pernetianas continues to intrigue and a careful reading of the following list will reveal some startling things surely worth trying.

HYBRID TEA AND PERNETIANA

Dame Edith Helen—H. T. (Dickson '27) Large full bl solid pink, very fragrant—vigo

Doris Dickson—H. T. (Sandy Dic '27) Large, semi-double car pink on yellow base—he grower.

Gaiety Pernetiana—Orange-bronz bud, becoming lighter. See from Souv. de Claudius Pern

Henry Ford—H. T. (Daverman Tall bushy plant, yellow salmon-orange when young, f to lemon, slightly fragrant.

Lady Margaret Stewart—H. T. (Dickson '27) Large, full rose gerine orange to golden yell vigorous.

Lord Lambourne—Pern. (McG '26) Semi-single to single, bu cup yellow hemmed with car scarlet.

Margaret McGredy — Pern. (Gredy '27) Brilliant red with g base—vigorous.

Mari Dot—Pern. (Pedro Dot '27) formed, (*continued on page*

Gorgeous Everblooming Roses-

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The Household Magazine of recognized authority which tells you how to make and serve

"Chocolate Pinwheels"
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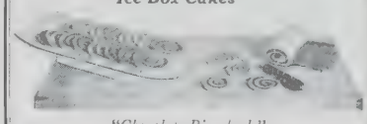
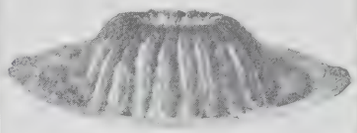


"Chocolate Pinwheels"

How to select and cook your favorite dish, how to serve it and what to serve with it; forty or fifty choice and seasonable recipes in each number, many of them illustrated.



"Cream of Asparagus Salad"

"AMERICAN COOKERY" gives menus for every possible occasion. Dinners, Luncheons, Wedding Receptions, Card Parties, Sunday Night Suppers, etc. Also contains timely Household Articles and Good Fiction.

If you have a family you *need* this Magazine, for using it will hel you set a better table for less money.

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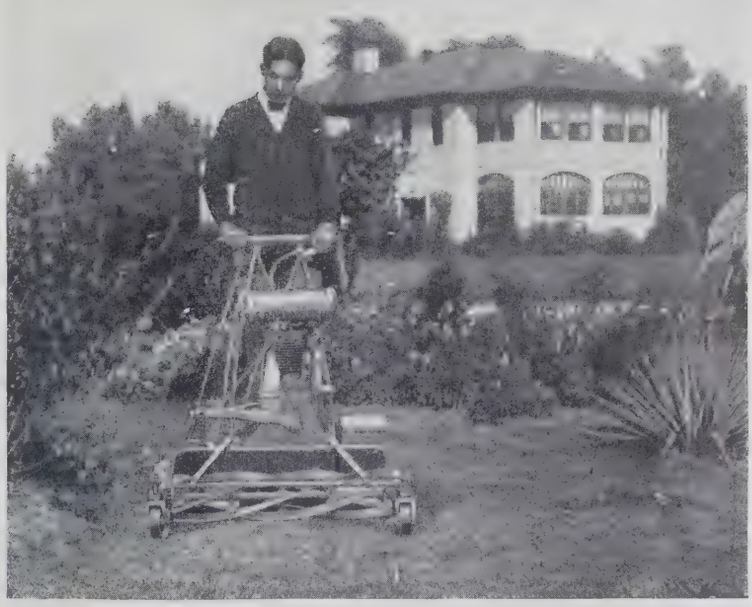

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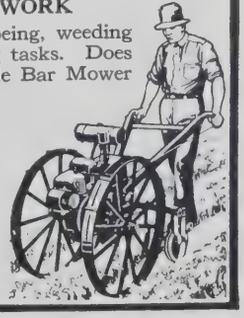

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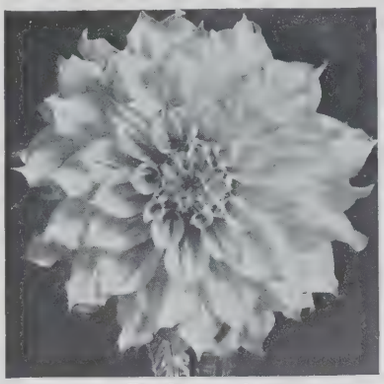

The Lemonade

This sensational decorative is little known outside of New England. It is a clear bright color. In our own gardens it has grown alongside Primula Rex, Sole Mio, Queen of the Garden Beautiful and Amarillo Grande, and not one of them has all the qualities of the Lemonade. Good stems, and no imperfect flowers. Proved its keeping qualities at the last New York show after a long trip from Massachusetts. We have a fine stock of healthy tubers of this beautiful dahlia.
Tubers, $5.00 each.

ALSO FOR 1928

Ida Perkins—(Decorative) Winner of Garden & Home Builder Achievement Medal at last Boston show. It is, we believe, the best white dahlia introduced to date. Tubers, $10.00.
Alexander Pope—(Hybrid Cactus) This sensational dahlia has never been defeated in any entry we have made with it. To date it has won 21 first prizes in Boston and other shows. Tubers, $5.00 each.

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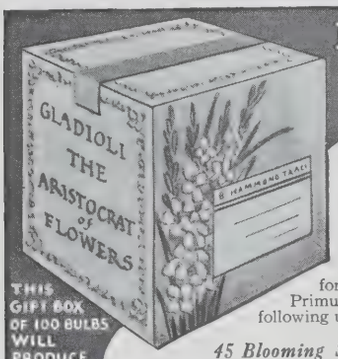

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Or should you prefer the standard large flowering type will mail postpaid.

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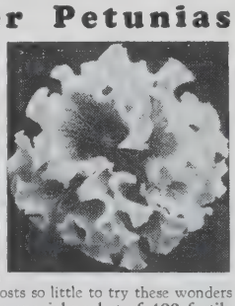

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Alluring Rose Novelties for this Year

Continued from page 106

lasting bloom; apricot orange turning to rich salmon pink.

Mrs. A. R. Barraclough—Pern. (McGredy '26) Semi-double, carmine pink on yellow base, fragrant.

Mrs. Erskine Pembroke Thom—Pern. (Howard & Smith '26) Somewhat similar to Souv. de Claudius Pernet, but smaller healthy foliage.

Pink Pearl—H. T. (Leenders '25) Salmon pink, pearl and gold, in a pretty combination—fragrant and prolific bloomer.

Souv. de Mme. Boullet—H. T. (Pernet Ducher '21) The deepest of the yellow Hybrid Teas—very long pointed bud—splendid bedder.

Souv. de Mme. Louis Crette—Pern. (Chambard '23) A golden yellow Mme. Ed. Herriot.

Monsieur Julien Potin — (Pernet-Ducher) Rich golden yellow that grows richer and deeper as the flowers mature. Delightfully sweet-scented. Very free flowering.

Miss Theresa Morley (Howard & Smith) —Brilliant carmine cerise. A very strong, vigorous grower, disease-proof foliage. Good in late summer and autumn.

Mabel Lynas (McGredy)—Brilliant dark crimson with a golden base. Flowers are large, full double, of splendid form, with petals of heavy texture and outstanding fragrance.

Marion Cran (McGredy)—Deep buttercup-yellow, margined and flushed cerise and rosy scarlet. Bushy.

Patience (McGredy)—Large, scarlet carmine lake. Good garden and cutting variety.

Duchess of Athol (Dobbie & Co. '28)—Old golden orange flushed with peach pink. Vigorous. Continuous profuse bloomer.

Lady Mary Elizabeth (Alex. Dickson '27)—Brilliant deep carmine-pink. Delightfully fragrant flowers on long stiff stems.

Mrs. Beatty (Cant & Sons '26)—Self-colored light lemon yellow. Disease-immune foliage.

Oliver Mee (Alex. Dickson '27)—Deep salmon with a heavy flush of clear fawn. Sweetly scented.

Royal Scot (Dobbie & Co. '28)—Rich golden yellow with crimson edges, semi-double. Vigorous, very profuse flowering.

Alma Mater (Good & Reese '28)—A sport from Columbia. Sea shell pink.

CLIMBING HYBRID TEAS

Golden Vision—Marechal Neil yellow.

Kitty Kininmonth — Bright fadeless pink. Very vigorous.

HYBRID PERPETUALS

Mme. Albert Barbier—H. P. (Barbier '26) A Mrs. Aaron Ward on a sturdy, hardy H. P. The first actually yellow H. P.; continuous bloomer.

Henry Nevard —H. P. (Frank Cant '26) Very large, double, velvety crimson bloom of old rose fragrance—very vigorous and fairly recurrent—splendid in the fall.

CLIMBING ROSES

Auguste Finon—Mult. Hybr. (Turbat '23) Gold yellow passing to rosy salmon—blooms 2½ inch—v ous.

Breeze Hill—Wich. Hybr. (A. R. S A most robust climber, large blooms, light pink suffused fawn and yellow base—Rer Gloire de Dijon

Chamisso—Musk Hybr. (P. Lar '24) Tall pillar, everbloom cream yellow with carmine r ings.

Fernand Rabier—Wich. Hyb. (T '19) Deep crimson scarlet, ty Excelsa, but two shades deepe

Gneisenau—Mult. Hybr. (P. Lar '24) A tall pillar, very large white bloom profusely produc over the bush, very distinct.

Ile de France—Wich Hybr. (Noni A double American Pillar, d in color.

Mme. Gregoire Staechelin—Clbg. Pern. (Pedro Dot '28) The tion of the season—most vig hardy climber with large fo large double bloom, crimson bud paling as it opens to a center—very fragrant.

Papa Rouillard—Wich. Hybr. (T '23) Airy clusters of pom carmine pink, long lasting— ous.

Mme. Jenny—Satiny rose color. Di resisting foliage. Very strong ing.

Bishop Darlington—Orange-red. petual flowering.

POLYANTHAS

Salmon Spray—Poly (P. Grant, tralia '25) Tall growing polya fine for specimen shrub or h Large sprays rich salmon sweetly scented. Flowers 2½ constant bloomer.

Superba—Poly. Large heads of blooms, deep crimson, darker Ideal.

MISCELLANEOUS

Agnes—Rug. Hybr.—The only yellow Rugosa in commerce- branches, bloom all along hollyhocks. Deep yellow, d paling to lemon.

Bergers Erfolg—Rug. Hyb. (B '24) Large single blooded p coming in close succession.

Dr. E. M. Mills—Hugonis H (A. R. S. '27) A valuable sh handsome habit and fol blooms abundantly in early —semi-double, pearly cream

Nemo—Rug. Hyb.—A pillar or ing everblooming Rugosa co ous bloomer, large double red with old rose perfume.

Pink Grootendorst—Rug. Poly pink replica of the well know Grootendorst.

Turke's Rugosa Samling—Rug. (Turke's '25) An improved F. Meyer with gold at base of

Von Scharnhorst—Pern. Hybr. bert '25) A pillar or tall single cream opening white. showy when in bloom—b again in the fall.

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We submit, therefore, that this *discretion* is a decided advance and most important factor in producing the popular colors so much in demand at the present day, and up to the present has not been appreciated by the Rose growing public:

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Our catalog is *different* as we do not pass along the description of the Hybridists as the Roses grow in Europe, but as they grow in our garden, always stating defects as well as merits.

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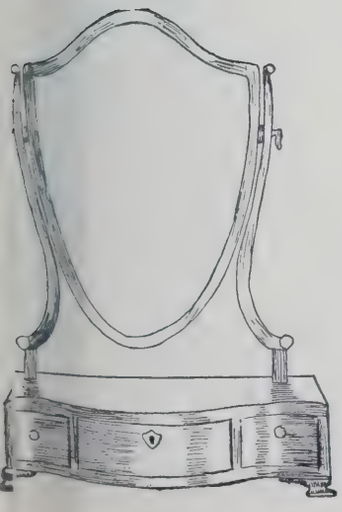
W. Lanier Washington



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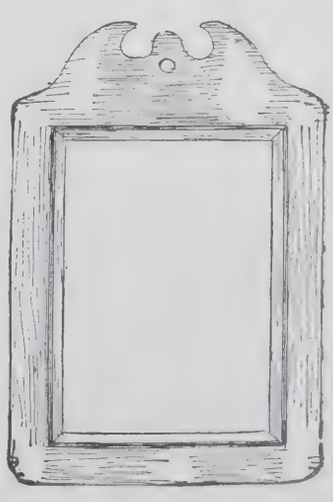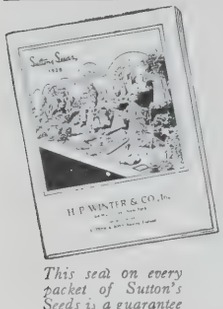

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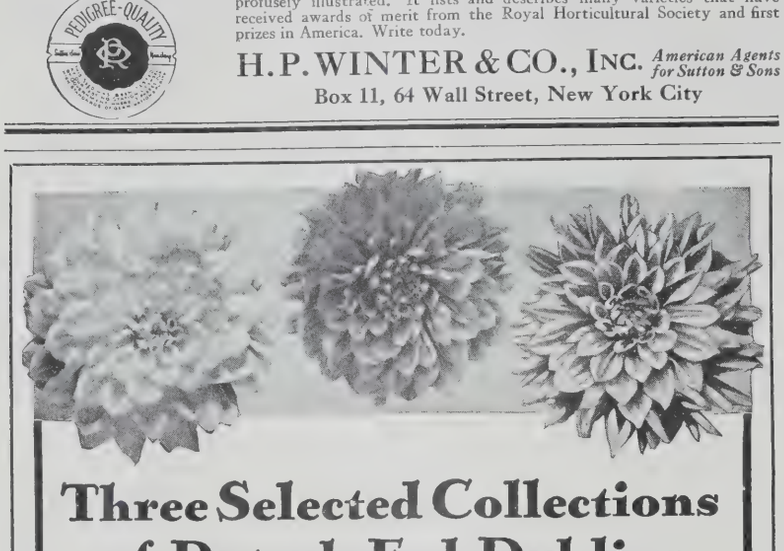

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Not so large as some, but delightfully interesting

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Now 'Tis Seed Time for the Flower Garde

Continued from page 33

of six packets, enough for large garden. Sow in rows, thin, and transplant thinnings.

Salpiglossis and Scabiosa. Excellent results when planted mixed. The former, an exquisite bell-shaped flower in rich, velvety colors. One packet each; mix the seed, and sow sparsely in a row. Transplant thinnings.

Ageratum. Beautiful in the garden, and invaluable for picking; lovely by itself and for supplying blue in mixed bunches. Blue Perfection; one package; transplant.

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Stocks. Improved. Cut-and-Come-Again. Unsurpassed for both cutting and in the garden; very fragrant.

Helianthus. Stella. Four feet. Lovely growing and for picking. Single daisy-like flowers in shades of yellow and primrose; black centers. One packet mixed.

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Violas and Pansies. (Biennials.) Much used as wide borders in France and England, in white, lavender, and yellow. Start under glass, and transplant.

Myosotis. (Forget-me-not). Sow early in position; seeds itself abundantly.

(4) HAVING A LIMITED SEASON OF BLOOM

Poppies. These enchanting flowers were always considered almost useless for picking; as a matter of fact, they are lovely in the house and also comparatively durable if stems are immediately plunged into boiling water after cutting, and blooms just opening selected. Include all the varieties you have space for. One package of Peerless mixture will do; or one each of Carnation-flowered, Peony-flowered, and Shirley. Sow the red French Poppy freely once, and it will 'carry on' indefinitely, and is one of the earliest annuals to bloom; it doesn't easily transplant. Mix all Poppy seeds with fine earth and sow very sparsely in two plantings. more it is thinned the better. Isc plants are always best; keep seed sels clipped.

Gypsophila. (Baby's Breath). I feathery, tiny blossoms, very u in mixed bunches. One packet; cl ground once.

Schizanthus. (Poor Man's Orchid) packet Large-flowered Hybrids. quisite butterfly-like flowers in shades of lavender. Plants just b ning to bloom make lovely winter h plants.

Centaurea. (Bachelor's Buttons.) of the loveliest of the smaller pi flowers. One packet each of D Blue and Double Mixed. Self after the first planting. Obtain season bloom by clipping seed-ve

(5) BIENNIALS, BLOOMING THIS YE PLANTED EARLY

Sweet William, Foxgloves, Canter bells, Violas and *Pansies, Iceland pies, Hollyhocks.*

(6) SPECIALS

Under this head I include some comparatively new in our garden have proved especially valuable also developments of old favorites

Among the latter are *Eschsch* appearing in lovely shades of and crimsons. Oriental Queen is a variety, pale buff inside, and o rich raspberry red. The primrose s and white variety are delicate beautiful. We have discovered t bowl of this, arranged with its feathery foliage, is exquisite in the and lasts well.

Euphorbia marginata (Snow-o Mountain). This green-and-white- leaves and flowers—favorite o grandmothers' gardens is very tively arranged by itself, or with flowers; also pretty in the garden.

Hunnemannia. (Tulip Poppy.) feet. Poppy-like crinkled flow buttercup-yellow with feathery, cut blue-green foliage.

Argemone. (Prickly Poppy). four-foot plant with large white blossoms with elaborate yellow st and prickly, holly-shaped leaves, veined. Beautiful in the garde flowers lovely picked.

Scabiosa Peach Blossom. Lovel shade of this valuable flower of quisite peach shade.

Arctotis. (African Daisy). Tw one-half feet. Lovely daisy-like borne in profusion, white petals blue on the reverse side. Very v for picking, but shabby habit of g

Annual Lupin. (Lupinus hyb We consider this one of our mos able later additions to our garde an all-season bloomer, long, spikes of lovely blue, pink, and the bud-spikes elaborately b continuing to blossom until aft frosts. Lovely picked.

Dimorphotheca. Ecklonis. E new annual, two feet in height spatulate leaves, and large da flowers often over three inches with small blue disk. Stiff sten very valuable for picking.

Dahlia. (Single). Growing luxu and producing a great variety of daisy-like flowers. One package of the above is sufficient for any and the expense (*continued on pa*

hat *Finished* ffect—is easily secured with e help of Barnes Bros. ished plants.

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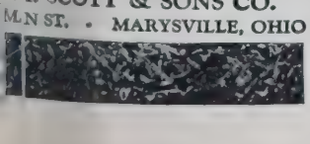

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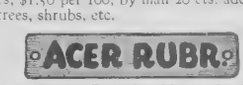

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Now 'Tis Seed Time for the Flower Garden

Continued from page 33

of these specials might well be a partnership affair between neighbors.

SEED ORDER FOR A PICKING GARDEN

The following amounts of seed will plant 70 foot rows, allows for very liberal planting, and lavish thinning—to insure sufficient quantity in spite of accident.

¼ oz. Aster American Branching, mixed
¼ " " Southcote Beauty, mixed
1 " Calendula, mixed
1 " Centaurea, Double Blue
¼ " Cosmos, Midsummer Giant
¼ " " Late-flowering
⅛ " Marigold, African Giant, orange
⅛ " " French, tall double
¼ " Verbena, Finest Hybrids, mixed
¼ " Zinnia Colossal, mixed
¼ " " Dwarf, Scarlet Gem
¼ " Single Dahlia, Single Prize, mixed
⅛ " Stock, Cut-and-come-again
⅛ " Dianthus, Chinese Pinks
½ lb. Sweet-peas, Giant Spencer

All the foregoing are planted outdoors where they are to flower, in mid-May, and thinned out rigorously. The Sweet-peas alone are separately treated and are planted much earlier—in fact as soon as it is possible to work the ground.

Good Vegetables from Your Own Garden

Continued from page 55

is 'catch 'em young.' Some remain in prime table condition longer than others. The Radishes grow pithy over night after they grow beyond an inch in diameter. Beets should be used as soon as they reach the desirable one and one-half to two inches in diameter size. When the Carrots get to be longer than five inches from top to tip of root, they are overgrown.

The Beans are at their best when they average five inches long, though all varieties suggested are absolutely stringless. The Corn should be gathered when a slight pressure with the thumbnail penetrates the skin of the kernels. That test is easily made by slightly peeling back the husk which afterwards should be replaced. Peas will be at their best at the end of period mentioned in table but since all pods do not mature at one time, they may be gathered for the best part of a week or ten days after the first mess.

One sure way of having a constant supply of vegetables that are just right is to sow short rows often rather than long rows at one time. This holds good particularly in connection with Radishes, Beets, Carrots and Lettuce, all of which remain in prime condition but a short time, deteriorating rapidly after the number of days mentioned in table.

As to the Seed supply: It always pays to buy in bulk. Ounces of Carrots, Beets, etc., not only hold sufficient seeds for repeated sowing but are also apt to hold seeds of higher vitality. Not all packets carried over from one season to another are opened and tested but every responsible seed house sees to it that ounces and bulk are tested before being sold. Which should make it superfluous to suggest to order your seeds promptly from a firm of known reputation rather than to wait until planting day and then 'take a chance' at the corner grocery store.

Two factors determine just how many seeds to order to work out a program on the basis of above data:— The size of the kitchen garden and the size of the family for whose benefit it is conducted. The average size of the average kitchen garden the country over is perhaps about 50 x 100 feet and such a space will provide ample vegetables for a family of five. Of course tastes differ, even in one and the same family. But that is easily adjusted by just dropping the undesirable classes and by doubling up those liked best.

Beans. 1 pound of early sorts—will sow 100 feet of row; ½ pound of late sorts—will sow 50 feet of row.

Beets. 1 oz. of each kind—will sow 100 feet of row.

Carrots. ½ oz. of each holds sufficient seeds for repeated sowing.

Corn. 1 pound of two early kinds holds enough seeds to plant three fifteen foot rows three times. ½ pound of each of the two late kinds is sufficient.

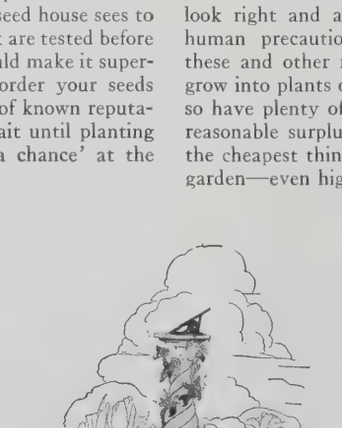
Lettuce. ½ oz. of each kind is sufficient for repeated sowings. Seeds usually of high vitality, so sow thinly. Seeds left over are all right for next year.

Peas. 1 pound of each kind is sufficient to sow 50 feet of row and it is hardly worth while to plant less.

Radishes. 1 oz. of each sort will sow about 50 feet of row or one ten foot row every week for five weeks. Do not sow any of the three kinds suggested during either July or August—they will grow pithy too quickly during hot weather.

Tomatoes. A dozen plants secured from a reliable source around middle of May will solve the problem here. A packet of seeds contains nearly 250 seeds and they should germinate about 90%.

And, just as a final reminder, don't count upon a mature plant for each seed in a packet. Accidents will happen; insects carry off seed or eat up the young plants, some seedlings fall by lack of the exactly right combination of factors at some critical moment, though things look right and are as nearly right as human precautions may go. For all these and other reasons seeds will not grow into plants one hundred per cent., so have plenty of seed and allow for a reasonable surplus at the start. Seed is the cheapest thing that goes into your garden—even high priced seed.



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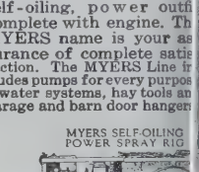

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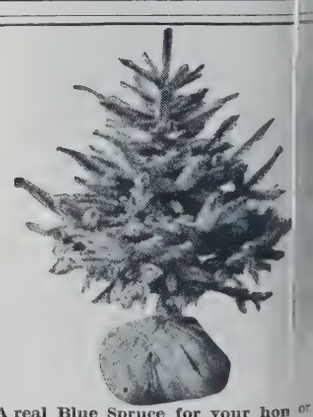

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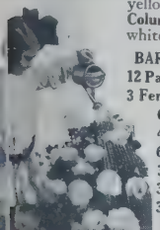

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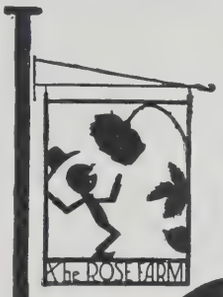

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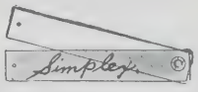

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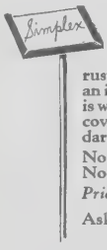

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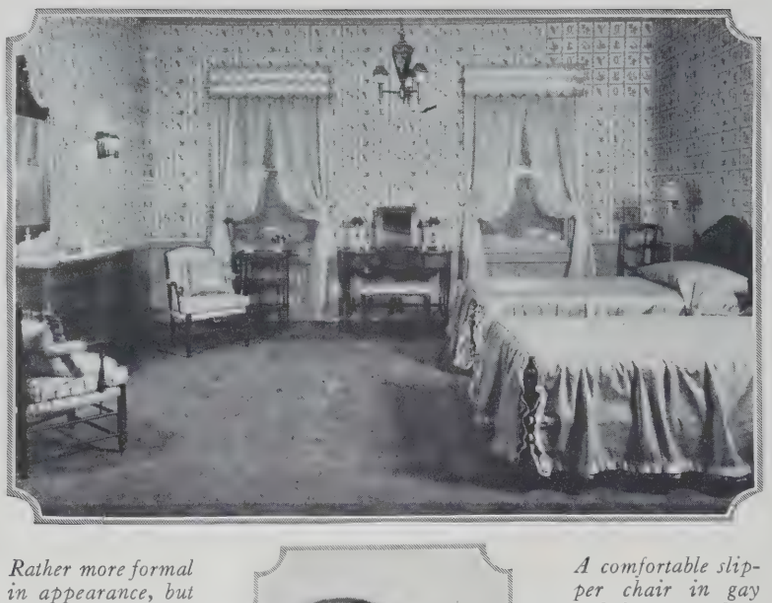

Rather more formal in appearance, but most inexpensive and entirely within the range of the limited purse is this room decorated by Lord & Taylor

A comfortable slipper chair in gay upholstery to harmonize with your draperies fits into any decorative scheme. Erskine-Danforth Corp.

Where the Guest Feels At Home

Continued from page 31

The adjoining bathroom is the real climax of this perfect guest room. Besides all kinds of fascinating electric fixtures, curling irons, a hair dryer, vibrators, and small bathroom scales to keep track of that annoying pound or so you are either trying to acquire or lose, there is a thick bath mat, a bewildering array of soft towels, washcloths, soap, bath salts and toilet water. There are properly adjusted mirrors and lights for the man who shaves himself, and, last but not least, on a shelf in one corner are several enameled cans that are found to be full of crisp little salted crackers for the person who likes a bite to eat before going to bed.

One word of warning: we have all suffered in the too dainty guest room, full of georgette ruffles and chiffon and satin gewgaws that we were afraid to approach for fear of soiling or creasing. This is the impractical room where even a woman guest feels she must be cautious and a man is simply miserable. Avoid it in your home!

An Everblooming Cactus from Texas

Continued from page 57

which curve spirally around from the bottom to the top and join in the center. In this connection is another anomalous feature, species of twining vines either turn to the right or the left and all individuals of any one species follow the same direction, however nineteen of these Cactus twist from left to right and five turn as decidedly in the opposite direction, from right to left.

Besides having thirteen distinct ridges, the ridges are furnished with clusters of stiff long bristles, each cluster having thirteen thorns, six white thorns and six red brown ones lie flat against the plant and a long brown thorn, which is recurved at the end, grows from the center.

The bristles or imperfect thorns can be of little protection to the plant as they are not strong enough to pierce the palm of one's fingers even though the outward pointing ones were not hooked or turned back at the ends.

Many of the larger plants had been partly eaten by rabbits and all the plants seemed to have been dependent for protection on cruel cat-claw shrubs; these have long slender branches armed with very sharp recurved thorns which are of exactly the shape of a cat's claws.

In some instances they were being protected by a dense shrub Cactus which was armed with sharp two inch barbed yellow thorns.

For some reason this species has evidently been unable to evolute an efficient system of spines with which to protect itself, and has been forced to develop a system whereby it can produce seeds throughout all of the warm season and by mere numbers of new plants continue to survive. At all times there are either developing buds or flowers and green and ripe scarlet fruit on the plants.

Most of the few everblooming flowers and fruits of the temperate zones have been developed by means of careful hybridization of species and I do not recall having previously seen this habit so strongly developed in an uncultivated species.

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Harley T. Peck, *Originator*

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Glistening golden hybrid-cactus, 5-7 inches. Extreme beauty, fine f and excellent keeping qualities. Sp delivery. Tubers, $10.00 each.

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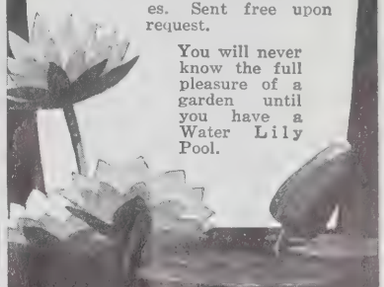

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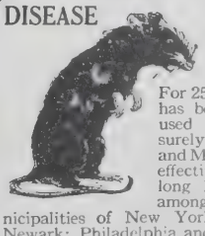

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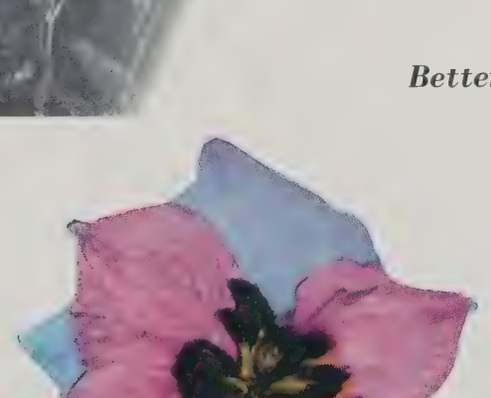

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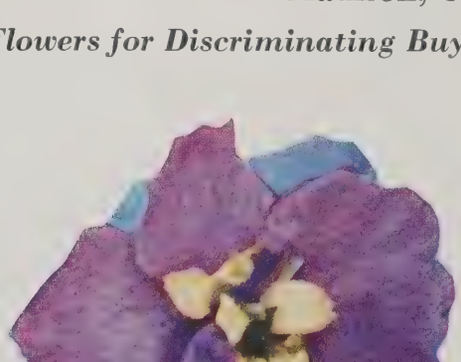

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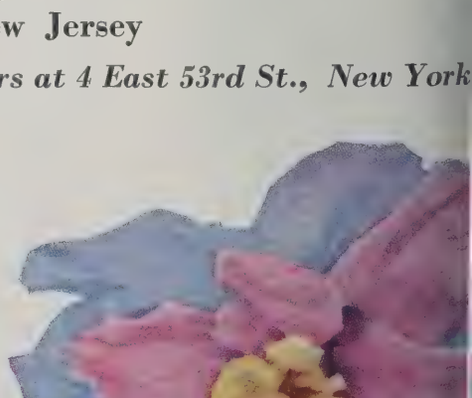

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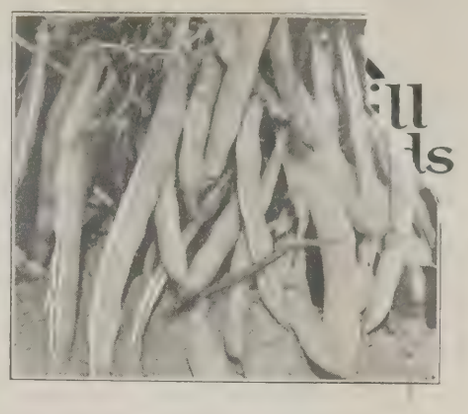
PEAS:—"I had a plot of ground in my vegetable garden where I had never been able to raise peas. This spring, as an experiment, I treated this ground and also the seeds with Semesan. I had wonderful success which proved to my satisfaction the good qualities of Semesan. Since then I have treated lettuce and many of my flowering plants with equally good success."

—FREDERICK SEILER, Jericho, Long Island, N. Y.

BEANS:—"I took a chance and planted Semesan-treated green beans before any of my neighbors and, notwithstanding the unfavorable weather conditions, the seed did not rot and I have a perfect stand of plants which have been blooming for several days. They also are ahead of my neighbors."

—JAMES M. IRVINE, Manager, Country Gentleman, Philadelphia, Pa.



BLIND GARDENING
is out of date

INVISIBLE diseases that cling to the seed will make graves of those precise rows and trenches in which you plant your seed so optimistically.

Don't blame the weather or the soil or the seed until first of all you've given your seeds a fighting chance against disease. Before you plant, make sure you're not giving the preponderance of opportunity to disease instead of to your seeds.

Your seeds need a disease-free start. Give them a simple Semesan treatment. Costs next to nothing and calls for no special skill nor for equipment more complicated than a fruit jar.

The gardeners whose letters appear here had no blind hopes, no illusions about their hobby—they used Semesan Disinfectants.

Semesan is an organic mercurical or clorophenol mercury compound. It is a seed and plant disinfectant, not a fertilizer. Its most important function is to destroy fungi and bacteria on the seed which cause plant diseases. Semesan is equally effective as a *dust* or *liquid*.

You can buy Semesan from seedsmen, hardware dealers, druggists or general stores. The cost is insignificant; a fifty-cent can will treat enough seeds for a large garden.

CORN:—"We have used Semesan Jr. for treating sweet corn seed for the past two years and find that it makes the plant practically disease-resistant. We have also experienced that seed corn treated with Semesan Jr. retained its vitality during cold, rainy weather."

—J. B. FAAS, Ostburg, Wisconsin.

TOMATOES:—"Semesan certainly did work wonders with the vegetables in my garden. A striking contrast is clearly shown between the check and Semesan-treated tomato plants. There is two inches difference in height and the treated plants' stems are much larger and sturdier than the check. The leaves of the treated plants are dark green while the leaves of the untreated plants are tinged with yellow."

WILLIAM DOWHAN, Marshallton, Del.

Booklets of directions for flower and vegetable seeds tell you all you need to know. They'll show you how to make gardening more of a pleasure and less of a worry. Let this coupon bring you copies right away.

Send for these Free Semesan Booklets!

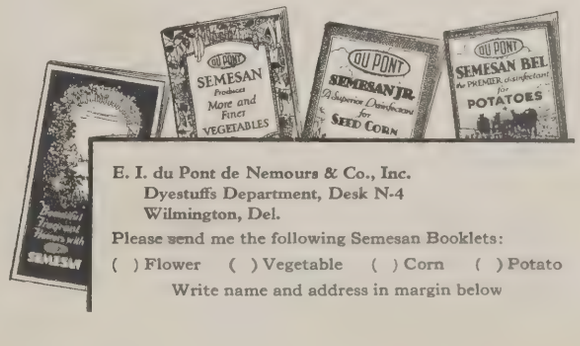
DU PONT
REG. U.S. PAT. OFF.

SEMESAN
SEED DISINFECTANTS

SEMESAN *for Seed Diseases*

SEMESAN JR. *for Seed Corn*

SEMESAN BEL *for Seed Potatoes*



E. I. du Pont de Nemours & Co., Inc.
Dyestuffs Department, Desk N-4
Wilmington, Del.

Please send me the following Semesan Booklets:

( ) Flower ( ) Vegetable ( ) Corn ( ) Potato

Write name and address in margin below

As Sweet a Flower as Grows—

Daphne cneorum (Garland Flower)

Fragrance in flowers—visions of Roses, Carnations, Sweet Peas, Violets—a long pause. This little Daphne we offer ranks almost at the head of the class. It is of a delightfully exotic fragrance, the nearest to it being heliotrope. Pink flowers in clusters during May-June and again during August-September.

Plants form symmetrical, prostrate evergreen shrubs. We offer the finest lot in the history of this business. The larger balled and burlapped specimens will be hard to duplicate elsewhere at any price. All are *Specimen Plants*, such as shown in oval above.

		Each	10	100
6 to 8 in.	- -	$0.75	$6.50	$60.00
8 to 10 in.	- - -	1.00	9.00	85.00
10 to 12 in. spread.	B. & B.	1.25	11.50	110.00
12 to 15 in. spread.	B. & B.	2.00	17.50	160.00

Evergreen Shrubs You'll Love

Then we offer the lovely Lily-of-the-Valley shrub (Andromeda) Heathers and Inkberries, Kalmias or Laurels and Rhododendrons, not to mention the greatest evergreen ground cover of all times, the Japanese Pachysandra. All these are offered in various sizes at reasonable prices for the *choicest nursery-grown stocks*.

A Catalog Abounding with Nature's Plant Treasures

Forty pages of plant materials generally not offered in the average nursery catalog. But if you are interested in hardy ferns and wild flowers, native Orchids and other native plants and shrubs, then our catalog will appeal to you as a guide to garden treasures. Just ask for your copy and please mention G. & H. B.

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Fern and Flower Farm

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BOBBINK & ATKINS

Ask for Catalog

World's Choicest Nursery & Greenhouse Products Grown In America

Visit Nursery

EVERGREENS

For Every Place and Planting

A vast area of our nursery is given to Evergreens and Evergreen shrubs Quite two hundred varieties are in quantities to meet the needs of the small garden, the private estate, or the public park.

We have Evergreens especially adapted to Rock Gardens and to Sunker Gardens; to foundation planting, and the large landscape. All these ever-greens are presented in our new catalog *"Evergreens, Azaleas and Rhodo-dendrons"* which will be sent on request to those who intend to plan Evergreens.

Our Specialties

Magnolias, Azaleas, Lilacs, Cotoneasters, Japanese Maples, Weeping Flowering Cherries, Red and White Dogwood, grafted Blue Spruce Koste and Moerheimi varieties.

Roses

by Bobbink & Atkins

A revised edition of this standard reference book for Rose growers describes nearly a thousand varieties, including new introductions and old favorites. All are classified to make ordering easy. A copy will be mailed to all who intend to plant Roses.

Hardy Herbaceous Plants

New and old-fashioned flowers—Asters Campanulas (Telham Beauty and others) Delphiniums, Epimediums, Japanese and German Iris, Potentillas, Trollius, An-thericums, Doronicums, Eremurus, Heu-cheras, Adonis, Astilbes, Primulas, and Rock Garden plants.

In your request, it is important to state definitely what you intend to plant. We issue several catalogs

We are in a position to fill orders of any magnitude

RUTHERFORD, NEW JERSEY

Please mention this magazine

Super Ambitions

To achieve Rose results as illustrated requires careful cultivation *plus* eternal vigilance. Keep the plants growing thriftily so as to assure profuse blooming condition, by spraying them at least once a week with

Melrosine ***Helps--and More!***

Besides creating a state of cleanliness conducive to perfect growing conditions Melrosine also fortifies the plants against insect attacks. It kills every bug it touches, even the toughest hard-shell rose bugs, besides destroying plant life's most insidious enemies, Aphis or Plant Lice. Last, not least, it counteracts all fungous diseases.

Melrosine is the complete all round Garden Cleanser. For sale at the best horticultural stores. If yours does not carry it, we'll supply direct. Please ask for instructive leaflet.

GARDEN CHEMICAL COMPANY

Park Avenue & 146th Street **New York, N. Y.**

The GARDEN AND HOME BUILDER. April, 1928. Vol. XLVII. No. 2. Published monthly by Doubleday, Doran & Company, Inc., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

WHICH is More Flexible—

—the Rope or the Hose?

THIS sailor is handling a fine piece of rope and repeating exactly the same stunts with a Bull Dog Cord Garden Hose. He can do anything with the hose that he can do with the rope

BULL DOG CORD

is the new idea in super-strong, super-flexible garden hose. We make it extra flexible to avoid kinking because kinks make surface breaks which develop into leaks. A hose which kinks is stubborn and unmanageable in the hands of the operator. For years manufacturers, dealers and users have been looking for the garden hose that is really flexible.

Go see this new kinkless hose at your dealer's. Take it in your hands, see how impossible it is to choke off the water channel. If you cannot find Bull Dog Cord where you usually buy let us direct you to it.

Send 10c stamps, for booklet "Making the Garden Grow". A professional hand book for the amateur gardener.

BOSTON WOVEN HOSE & RUBBER CO., CAMBRIDGE, MASS.

Your very own Roses in 8 weeks!

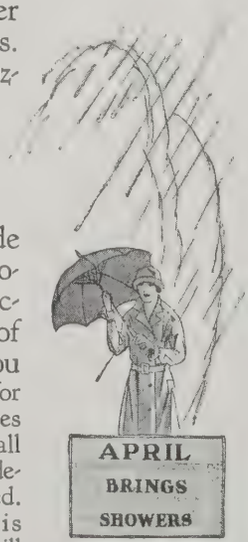
With April's warm sunshine and soft showers, the new rose year starts in earnest. Your roses should *surely* be in the ground then. Also, it is easier, cheaper and better to have them sent when they are dormant. After May first, they must be shipped (more expensively!) as potted plants.

All "Star Roses" are trade-marked with the durable celluloid tag "Stars"—and they're guaranteed to bloom!

If you haven't hitherto grown roses, if you haven't had luck with roses, if you want more *good* roses—we suggest that you order the "Star Dozen."

Our "Star Dozen" has been scientifically chosen, the twelve most-popular, best-liked, steady-blooming roses in America today—all colors. "Star Roses," full of vitality, grow easiest and best under average garden conditions; they are grown for you by master rose growers in sunny open fields. They're sturdy! The "Star Dozen" catalogs for $12.50. Ordered together, you pay only $10.50. You save the price of two rose bushes! Send today!

Ask for our 1928 "Star Guide to Good Roses," 100 pages, profusely illustrated in color. It pictures and describes hundreds of rose varieties, and will help you to choose the best roses for your garden—old favorites or newest novelties, all tested and tried, all trade-marked and guaranteed. The "Star Guide" is FREE. A postal will bring it. Send today!



And, April showers bring roses!

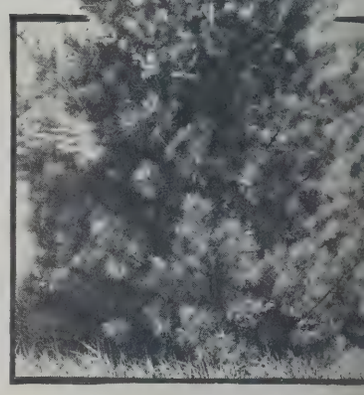
Order your "Star Dozen" *now*, and you'll have glorious roses in less than eight weeks!

THE CONARD-PYLE CO.
Star Rose Growers
Robert Pyle, Pres. Box 24 West Grove, Pa.

P. S. We've a new 1928 "Success with Roses," entirely rewritten, excellently illustrated, helpful and interesting—only 25c. Order now!

JAPANESE BLACK PINE

Thrives Where the Bleak Winds Blow



GRAYISH or black bark, and long sweeping branches, give a novel beauty to this Pine from Japan (Pinus thunbergii). Hardy into southern Canada, growing well in poor soil, resisting the whipping gales and salt spray of the seashore, sum up its good qualities. It is numbered among the best Pines for exposed places inland and along the coast.

2 to 3 ft. specimens $3.00 each $27.50 for 10
3 to 4 ft. specimens $4.00 each $37.50 for 10

We grow these Pines here at Westbury where conditions are ideal for many evergreens. Come and see them—or send for our latest list of varieties and prices.

HICKS NURSERIES

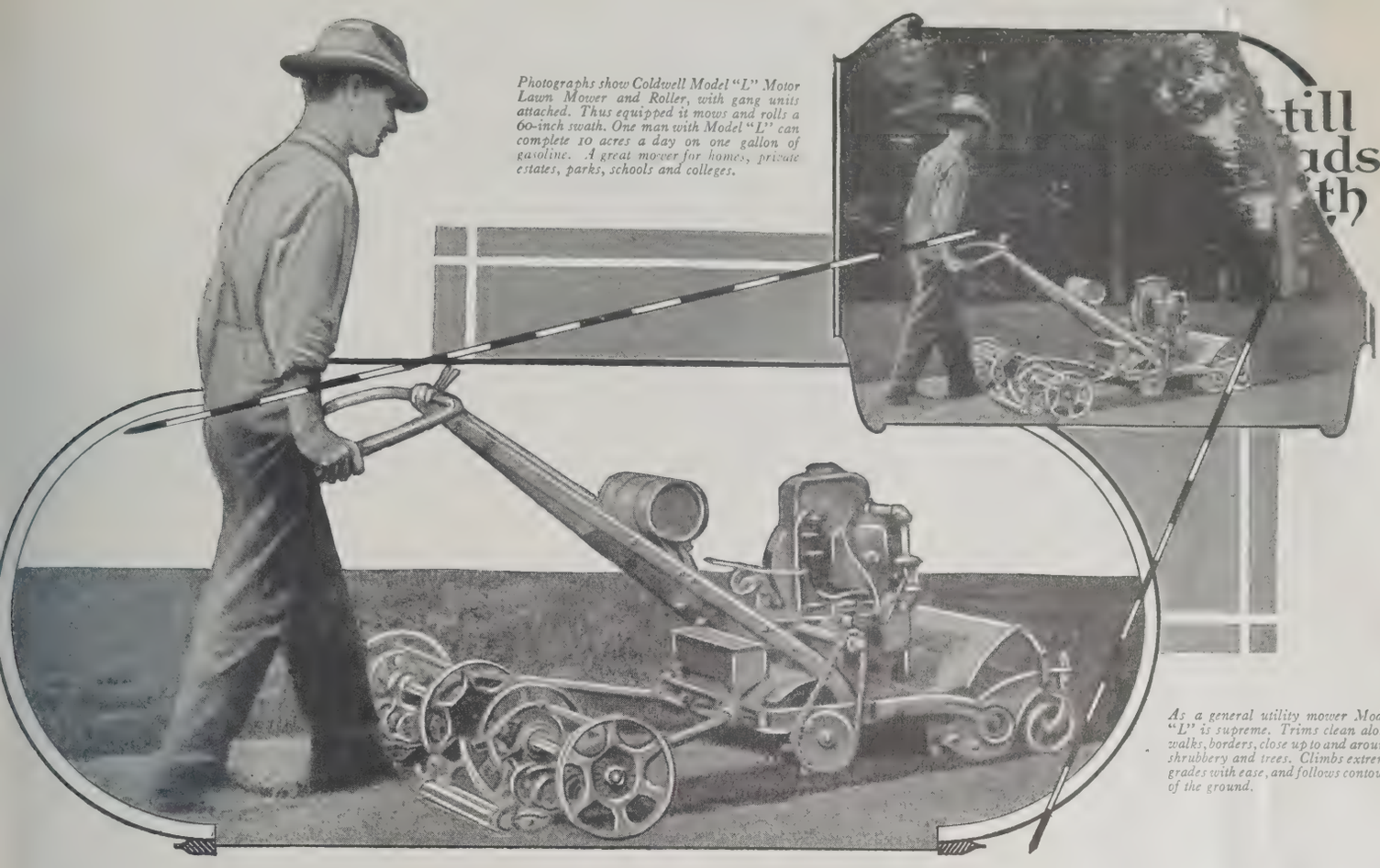
Box M **Westbury, L. I., New York**

Hitchings Greenhouses

"Neighbor Shirley, that conservatory of yours seems to be a great petting place."
"Yep. Five daughters all married off or engaged there!!
That's one of the advantages of owning one's *own*."

There's a bit of printing just published called "Help Hints on Owning your Own," which we will gladly send you.

Hitchings and Company
Elizabeth, N. J.



Photographs show Coldwell Model "L" Motor Lawn Mower and Roller, with gang units attached. Thus equipped it mows and rolls a 60-inch swath. One man with Model "L" can complete 10 acres a day on one gallon of gasoline. A great mower for homes, private estates, parks, schools and colleges.

As a general utility mower Model "L" is supreme. Trims clean along walks, borders, close up to and around shrubbery and trees. Climbs extreme grades with ease, and follows contours of the ground.

Dependable Lawn Mowers For Every Purpose and Purse

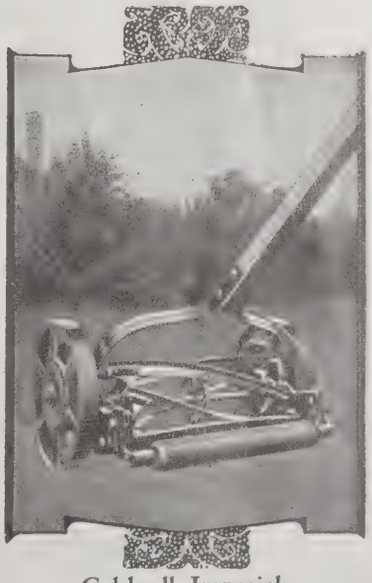
At a New Low Price!

ldwell Electric Lawn Mower—cuts out the udgery involved in pushing a hand mower. 'ugs in on any electric outlet—house or garage. urnished in either 18 or 21 inch size. Auto-atic reel takes up and pays out cable as needed. nsurpassed for boulevard parkings and subur-n homes. Send for booklet. "As easy to operate as a vacuum cleaner."

Time-tested dependability has given Coldwell Lawn Mowers their unchallenged leadership. Countless home owners prefer Coldwell for just this quality. It means efficient, economical performance. It saves the delay and expense of time-out-for-repairs. It insures long, satisfactory service.

Four distinct types of mowers are represented in the Coldwell line—hand, horse, gasoline and electric. By all means see these dependable lawn mowers before deciding upon any mower. The nearest Coldwell dealer will gladly demonstrate on your own lawn. No obligation.

Illustrated literature on request



Coldwell Imperial Hand Mower

A famous Coldwell model—greatly improved. Lighter running. Easier to push. Embodies new features which make it the most advanced type of hand mower on the market. Timken Roller Bearings. Cutter blades tempered in oil. Built to last.

HAND

HORSE

SINCE 1867

COLDWELL

DEPENDABLE LAWN MOWERS

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COLDWELL LAWN MOWER COMPANY, NEWBURGH, N. Y., U. S. A.

Again We Invite You!

COME and help us to enjoy our **Annual Daffodil Festival.** For those who live within motoring distance of Oyster Bay, we have a real treat in store; the hillside and adjoining plots will display Daffodils by the thousands, in a hundred or more meritorious varieties, including some rare novelties. And if you cannot come because of living at a distance, then please

Let Our Catalog Call on You

It shows some pictures of our show grounds which will, we hope, cause you to long for similar sights around your own home. It tells the story of American-grown Daffodils as produced on our new farm here on Long Island. It will tell you of bulbs as plump and as full of blooming power as ever came from Holland. These bulbs bear as large flowers and last as long. It will also show you views of our Tulip Trials, pronounced by visitors in past years as one of the most gorgeous sights on all Long Island. These pictures and others will help you to understand why year after year our Bulbs have won the Blue Ribbons at the leading flower shows throughout the country.

So, If you cannot call at Tulipdom during the next 60 days, please let our *free catalog* acquaint you with ways and means to own the finest bulbous flower garden in your vicinity.

ZANDBERGEN BROS., *"Tulipdom"* Oyster Bay, L. I., New York

Nurseries at Valkenburg, near Leiden, Holland and at Babylon, L. I., N. Y.

Bulbs "In A Class All Their Own"

Whether you order Daffodils, Tulips, Crocuses or any other bulbs we offer, you may rest assured that you will get the choicest which experts have succeeded in producing with the help of congenial climatic and soil conditions. Please ask for freely illustrated Catalog—F R E E

Greater Dahlias from Sanhican Gardens

First Prize (Gold Medal) four years in succession, from The American Dahlia Society, New York Show.

"JEAN HARE"

Col. Chas. A. Lindbergh (H. C.) Rose "du Barry", shaded with ivory and carmine-pink.
List price, **plants each, $5.00**

"F. T. D." (Dec.) A perfect decorative type; color rich Tyrian rose; long stiff stems.
List price, **plants each, $4.00**

La Mexicana (H. C.) A brilliant blend of bronze and burnt orange. Perfect form and stem.
List price, **plants each, $3.75**

Sanhican's Peach (Dec.) A beautiful fluffy flower of delicate "peach cheek" pink.
List price, **plants each, $3.00**

Jean Hare (H. C.) A beautiful blend of buttercup yellow, apricot and golden bronze. Great size, perfect form and splendid stem.
List price, **plants each, $5.00**

Esther Nelson (H. C.) A grand flower with peculiar twisted petals showing a golden base with rosy carmine tips. (This dahlia scored very highly in N. J. Dahlia Society Trial Grounds)
List price, **plants each, $5.00**

SPECIAL!
One plant each of the above grand 1928 Novelties (value $25.75) for **$20**

FISHER & MASSON

America's Most Successful Dahlia Growers

SANHICAN GARDENS (Box G) TRENTON, N. J.

An Automatic Oscillating Irrigator

THE WATERFAN

A Real Rainmaki Machine

FOR WATERING

LAWNS ❖ FLOWERS ❖ GARDEN

FOR LAWNS AND FLOWERS

The WATERFAN is t most effective little rai maker ever invented.

A six pound machi that is easily attached a garden hose and ope ated by the ordinary ci water pressure.

It covers a rectangular area.

It is mounted on a triangular, sled-like frame so it can be easily pulled by the hose.

Model	Area Covered	Gal. per Minute	Water Pressure	Price
No. 6	14 x 45 ft.	3½	25 lbs.	$15.00
No. 8	25 x 45 ft.	5	30 lbs.	$16.50

FOR VEGETABLE GARDENS

Send for Circulars.

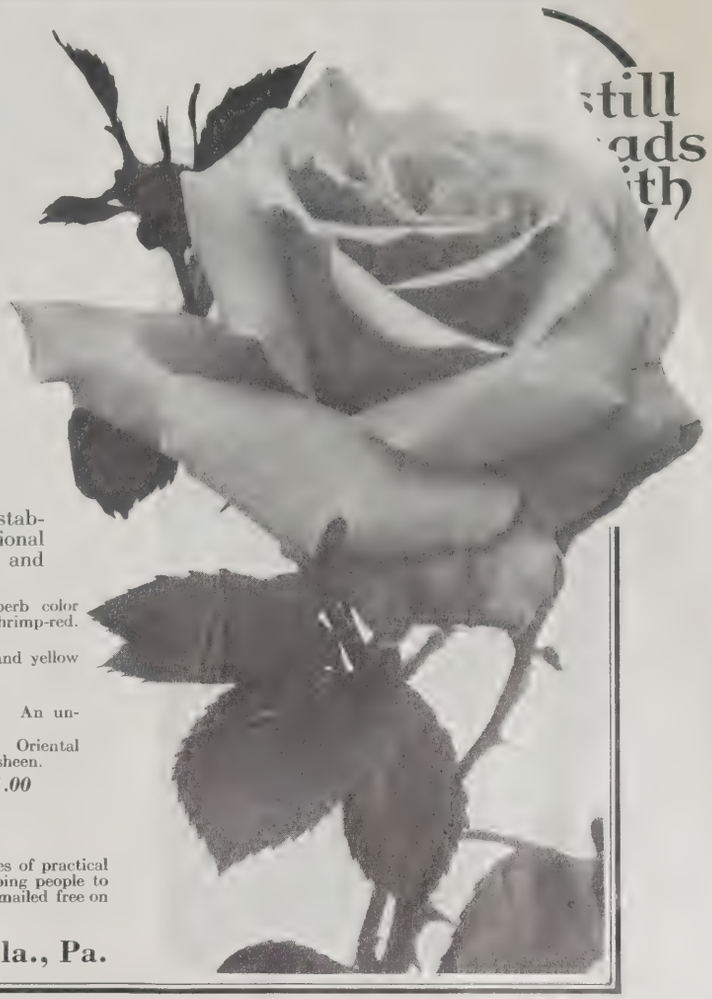
Cash orders sent post paid.

CAMPBELL IRRIGATION COMPANY

MALCOLM C. LUDLAM, *Proprietor*

Woodbury New Jer

Dreer's Garden Roses



GIVEN fairly good garden soil, sturdy, field-grown plants of varieties found best by test, plus reasonable cultivation after planting them and you cannot help succeed with Roses, especially if you follow

Dreer's Cultural Notes on Garden Roses

as presented on pages 30-31 of our special Rose Catalog. Eleven distinct chapters really tell the whole story—from soil and situation to protection and enemies. Covers every phase of the subject in most complete fashion. Forty-eight varieties are pictured—eleven in natural colors. Almost 400 varieties are described, in twenty different classes of widely varying usefulness. Altogether **"Dreer's Garden Roses"** is a most valuable contribution to current garden literature **and** it is yours **free for the asking.**

The Dreer Dozen
Hardy Everblooming Hybrid Tea Roses

Represents the composite selection of the critical Rose Judges in the Dreer establishment. Everyone of the varieties included can be endorsed as possessing exceptional merit. All will do well wherever Roses thrive, bloom freely throughout Summer and Fall in a wide range of beautiful colors. Here they are:—

DUCHESS OF WELLINGTON. Saffron-yellow stained crimson.
HADLEY. Crimson-scarlet with velvet sheen.
IMPERIAL POTENTATE. Rose-pink.
LOS ANGELES. A unique combination of flame-pink, coral and gold.
MME. JULES BOUCHE. White, tinted blush.
MRS. WM. C. EGAN. Light pink with deeper center.
PADRE. Coppery scarlet flushed yellow.
MME. EDOUARD HERRIOT. A superb color combination of coral-red, yellow and shrimp-red. The famous Daily Mail Rose.
RADIANCE. Carmine-pink with salmon and yellow shadings.
RED RADIANCE. Bright cerise-red.
SOUVENIR DE CLAUDIUS PERNET. An unrivaled yellow garden rose.
SOUVENIR DE GEORGES PERNET. Oriental red shaded carmine, suffused by golden sheen.

Any of above, strong, two-year-old. field-grown plants, $1.00 each; $11.00 per doz., $90.00 per 100. One each of the Dreer Dozen for $11.00

The Dreer Garden Book--FREE

This most unique index to one of the world's foremost horticultural establishments holds 224 pages of practical garden lore. It brings to your door the cumulative experience of almost a century's experience in helping people to better gardens of all kinds and offers the Seeds, Bulbs and Plants needed to make them. Gladly mailed free on request, and please mention *Garden & Home Builder.*

HENRY A. DREER, 1306 Spring Garden Street, Phila., Pa.

Planet Jr.

You owe yourself a Planet Jr.

You owe it to yourself to know that complete satisfaction of a hoeing job quickly and cleanly done which only a Planet Jr. can give.

Take this Planet Jr. No. 17 Single Wheel Hoe—a general favorite. Lightly balanced, running with a minimum of effort on its single wheel, it saves hours in time and aches in muscles. It plows, cultivates, weeds, ridges, furrows—in fact does all the tillage work in even the largest home garden. Does a better job, too—closer, cleaner and deeper. The first cost is practically the last, too.

Send for the latest Planet Jr. catalog and read all about this fine tool. Also shown in our interesting garden booklet—"Home Gardens —How to 'Grow What You Eat.'" Both mailed on request.

S. L. ALLEN & CO., Inc.
Dept. 32-D
5th and Glenwood Ave. Philadelphia

Trade Mark *Registered*

WILSON'S O. K. PLANT SPRAY

YOUR plants, flowers, shrubs and evergreens are costly . . . protect them against injurious insect pests. Simply spray them consistently with Wilson's O. K. Plant Spray—the nationally recognized standard insecticide for flower and garden pests. Powerful, yet harmless to humans . . . clean, easy to apply . . . equally effective out-of-doors or under glass.

Recommended by the Officers of The Garden Club of America.

1 quart $1.00 1 gallon $3.00 5 gallons $12.00 10 gallons $20.00

Order your requirements for Summer now!

This summer kill your weeds the Wilson way. . . . Simply dilute Wilson's Weed Killer with water (1 gallon to 40 gallons of water) . . . and sprinkle . . . that's all. Kills all weeds, vines, poison ivy, etc.

1 gallon $2.00 5 gallons $8.00 10 gallons $15.00

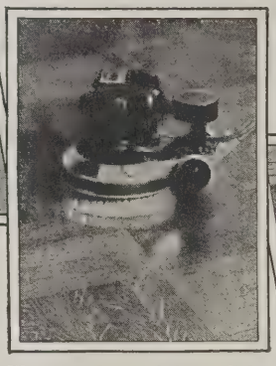
Sold at leading seed, flower, hardware and department stores everywhere. If not obtainable at your dealer, write us.

Andrew Wilson INC.
Dept. A
SPRINGFIELD **NEW JERSEY**

This One Unique Floor Machine

Polishes

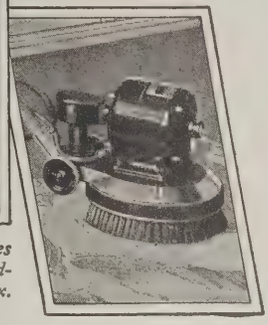
The electrical way of doing over floors. Plug into an electric light socket like a vacuum cleaner. You don't even push or pull—you merely guide the machine.



Scrapes

Takes off the old dingy shellac or varnish and sandpapers the wood to velvet smoothness.

Waxes the floor and then polishes it. Result is far superior to hand-work and you use much less wax.



Scrubs

Here's the way to clean tile, cement or marble floors. Fast. Efficient. No back-breaking drudgery. No splashing.

COSTS but a FRACTION of what a contractor would charge for doing over your FLOORS . . . so amazingly SIMPLE you operate it YOURSELF

You'd be surprised how beautiful your floors *could* be.

They may look dingy and disreputable now, but how they'll gleam and glisten when done over the *electrical* way.

Instead of pulling rugs over the ugly worn spots, as you may be doing now, you'll be so proud of the lovely finish that you'll hate to cover up a single inch.

Can't you picture how much better your furniture will look . . . and your draperies . . . and rugs!

Can't you just hear your friends asking whether you've had a *new* floor put down?

How amazed they'll be when you tell them that you actually did over your old floors *yourself* . . . that the marvelous improvement was entirely due to *your own* efforts!

Yet that's just what you *can* tell them. The Ponsell Electric Floor Machine enables you to scrape, sandpaper, wax and polish your old floors without bringing a single workman into your home.

Too good to be true? Not a bit of it. That's only *one* of the advantages. In addition, you save money because the machine costs but a fraction of what a contractor would charge you to do over your floors.

Then too, the machine refinishes your floors in such a way that they are no trouble at all to keep looking beautiful all the time.

It's astonishing how quickly and easily floors can be done over with the aid of electricity. The *head*-work YOU do; the *hard* work you leave to the machine.

You plug into a socket just as you would with a vacuum cleaner. In a few minutes you are running the Ponsell like an expert and your floors are on the way to a vast improvement.

Good-bye, Drudgery!

When floors are done over by ordinary methods they have to be refinished every few years; and it is no easy task, as you well know, to keep them looking presentable from day to day.

But when you do them over the Electric way, you never have to refinish them again and, what's more, the machine takes care of them for you forever after.

A few minutes' polishing each week, an occasional rewaxing (operations which the Ponsell makes absurdly easy), and your floors become the constant envy and admiration of your friends.

The machine brings you other important benefits—more than there is room to describe here. So—while the subject is fresh in your mind—send in the coupon for a complete description.

TEAR OFF . . . FILL IN . . . MAIL TODAY

Ponsell Floor Machine Co.
220-230 West 19th St., Dept. G.H.B. 4-F
New York City

Please mail me complete information and prices regarding your Electric Floor Machine. This does not obligate me in any way whatever.

Name.....

Address.....

City.....State.....

GHB-4 F 28

The ENEMY— *Hot, Dry Weather*

THE menace to the summer-time beauty you plan for your place, the enemy just around the corner, is—drought!

Ten days of cloudless sky and heat-laden wind will scorch your lawn, shrubbery, flower and vegetable gardens.

Rain is uncertain. It doesn't always come at the right time. But you can depend on the Skinner System of watering. It gives you the moisture you need. Your place in August can be as attractive as in June.

Send for our booklet "Rain"—prepared by our engineers out of twenty years' experience in solving watering problems. Pictures show beautiful gardens of Skinner System owners. Letters tell what Skinner System users think of the system. Whether your place is large or small, you are sure to be interested in "Rain." Send for your copy today. It is free and you are not obligated.

SKINNER SYSTEM OF IRRIGATION.

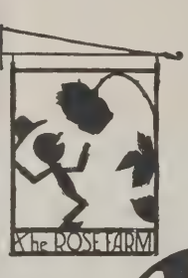
Some Interesting Facts About Watering

Did you know that when certain plants and flowers have their foliage knocked off by hose-watering they "bleed" to death? Did you know that hose-watering also produces scald and mould on leaves by throwing up soil on them?

A fine, misty spray is what you want—the way of the Skinner System—a gentle, rain-like shower that bathes and refreshes—that does not "throw" dirt, and that moistens the soil to any depth required.

You Cannot Have Skinner System Results Unless You Use The Skinner System

THE SKINNER IRRIGATION CO.
219 Water Street, Troy, Ohio



GOOD ROSES

You are Sure of Success When You Plant

"ALREADY STARTED PLANTS"

These are 2-year-old field plants, potted and now well furnished with new roots and vigorous growths.

They can be planted out without any set-back, and will bloom as profusely as the early-planted dormant stock.

Our new Catalogue is ready

Nothing but "Good Roses"—Old and New, conveniently arranged under colors; truthful descriptions devoid of exaggerations—42 beauties illustrated in colors. A book that will solve all your difficulties in selecting, ordering and planting. Our entire attention is devoted, year in, year out, to growing:—

Quality Roses in Quantity They are here—ready for your garden

Send for catalogue today

The ROSE FARM, (Box G)
(PURCHASE near RYE LAKE) WHITE PLAINS, N. Y.

still leads with

THE distinctive effects easily obtained with Johns-Manville Asbestos Shingles are well illustrated by the roof colors of this house at New Rochelle, N. Y. This roof is of Colorblende Shingles in random exposures The cottage below shows the pleasing and economical French style of roofing by the use of Johns-Manville Hexagonal Asbestos Shingles.

Roofs that add charm to a cottage, or distinction to a large house

FIRST of all your home must look well. Modern taste demands color in the roof. But it must be harmonious color, soft, warm, smart because of its simplicity. Such are the colors of Johns-Manville Asbestos Shingles. They are natural rock colors as everlasting as the shingles themselves.

Johns-Manville Asbestos Shingles are unharmed by the elements. Fire, wind and water cannot hurt them. They will not burn, curl, rot nor leak. They make a roof that is really permanent—one under which your grandchildren's children may play. Yet their first cost is low, and it *ends your roofing expense.*

Permanent Charm—Always Fireproof

The thick, sturdy construction of these shingles and their pleasing texture is unique. Roofs covered with them have the "shadow lines"—the subtle note of quality that good taste demands.

These shingles satisfy the desire for beauty which you share with all who take pride in their homes. To win the battle against fire and decay, to adorn your home—roof your new house or re-roof your present home with Johns-Manville Asbestos Shingles. Whichever you do you will have laid a roof that will never have to be replaced. You will have added to your home, and to your neighborhood, a touch of unobtrusive beauty which will be permanent.

There's no mystery about roofing

Roofing is either fireproof or it is not. Either it is *permanent* or it is of uncertain life. Either it is solid, thick, distinguished, smart; or it is thin, cheap looking, commonplace. Either it is an ornament to your house or something unpleasant to the eye.

Everyone knows Asbestos will not burn. Johns-Manville Asbestos Shingles are really fireproof. Asphalt shingles are "fire resistant." Johns-Manville Asbestos Shingles are permanent. Asphalt shingles require replacements. Johns-Manville Asbestos Shingles are solid and substantial to look at.

Put Johns-Manville Asbestos Shingles on your roof. Any contractor, building material or lumber dealer can furnish you Johns-Manville Asbestos Shingles. If he does not stock them he can get them from one of our Authorized Distributors. Be sure to get the certificate which goes with every genuine Johns-Manville Asbestos Shingle roof. Your roof will then be recorded together with the name of the roofer, and that of the dealer who supplied the Shingles. This certificate insures you the protection of our full guarantee.

JOHNS-MANVILLE MASTER OF ASBESTOS

Johns-Manville was the pioneer developer of asbestos. Without the many uses to which this remarkable mineral is now put, modern industry could not exist, nor would modern life be as comfortable as it is.

Improved Asbestocel which insulates the heating pipes in modern homes and saves tons of coal, high pressure insulations for the great steam mains of power plants and large buildings are Johns-Manville products. So also is Johns-Manville Asbestos Brake Lining—a dependable, powerful, positive control for motor cars at all speeds. Hundreds of other Johns-Manville Asbestos products save money and trouble for engineers, and for railroad and industrial executives.

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ASBESTOS SHINGLES
BRAKE LINING AND INSULATIONS OF ENDURING FIREPROOF ASBESTOS

FREE—Booklet of Color Combinations for Roofs

JOHNS-MANVILLE CORP., Dept. R-15
New York, Chicago, Cleveland, San Francisco
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(Mail coupon to branch nearest you)

Send me your free booklet showing how to choose the roof most suitable for my house.

*Name*_____

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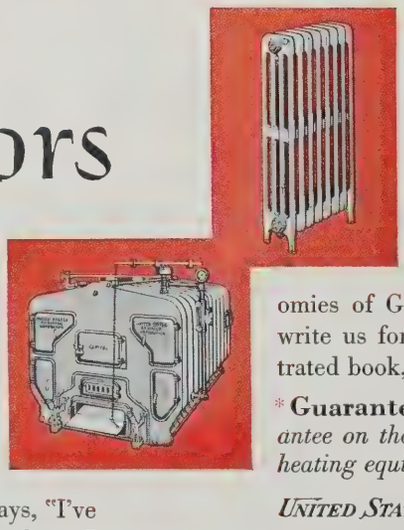
In defense of Janitors

The chilly domestic scene, pictured above, is enacted in thousands of apartments whenever the red in the thermometer suddenly slips down. Diplomatic tenants cajole the janitor with honeyed words. Others shake a threatening, cold-stiffened finger at him.

Under such circumstances janitors have been known to reply with hot words; but these have added not one degree to the disagreeable temperature of the rooms. "I'm giving you every bit of heat I can," he says, "I've stoked and I've shoveled, I've shoveled and I've stoked . . ."

Thus, the landlord loses the good will of the tenant. Costly coal is wasted. Wives and children suffer. Tempers are tried. And unhappiness reigns; all for the want of Guaranteed Heating with Capitol boilers and Capitol radiators.

There is a moral in this. It applies not only to landlords owning



old heating systems, but to all who are building now. Eliminate all doubt and speculation about heating results by specifying *Capitol Guaranteed Heating*.

For, the exact number of radiators that any Capitol boiler will satisfactorily heat is certified in writing.* So scientifically is its capacity determined that winter's most rigorous days always find it with the needed reserve power. *Guaranteed!*

Ask any Capitol contractor about the many economies of Guaranteed Heating. If you don't know who he is write us for his name and a free copy of our informing, illustrated book, "A Modern House Warming."

* **Guaranteed Heating.** *Your contractor receives a written guarantee on the heating capacity of every Capitol boiler. No other heating equipment assures you satisfaction so definitely.*

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6 Factories and 32 Assembling Plants • • For 38 years, builders of dependable heating equipment

Guaranteed Heating WITH

Capitol Boilers

AND RADIATORS

Brighten Your Garden

G. E. SCHULZ, President
Jacob Schulz Co., Inc.

During the hot late summer months, you can keep your garden luxurious with "Kentucky Bred" Dahlias. They combine the hardiness of arid Mexico with the beauty of the blue grass country to pour forth their beauty in your garden during the gap between the early summer flowers and the autumn bloomers. We have hundreds of colors and shapes that you will enjoy and admire

Grow "Kentucky Bred" Dahlias

Many startling and beautiful color combinations are contained in our special garden offers Imagine the beauty of these six Dahlias in your own garden: *Red Cross*, golden yellow suffused with coral red; *Cigarette* creamy white, edged with orange; *Mariposa*, true pink suffused with faint violet; *Frau G. Scheiff*, apricot-orange with reverse of petals and center of coral red; *Paul Michael*, beautiful autumn shade of old gold; and *Rosa Nell*, clear bright rose. All good growers, with strong stems. Priced individually at $6.50. In combination for $4.00. Order Special Garden No. 11.

You will find a complete listing also of many more beautiful collections in our 1928 "Kentucky Bred" Garden Book. We would like to send it to you, but we have not your name and address. Won't you send it to us?

Jacob Schulz Co., Inc. Box 646 Dept. A Louisville, Kentucky

Rock's Seeds

"From the Garden Spots of the World"

These are but a few of the many novelties we have collected from the world's most famous garden spots.

NEW SNAPDRAGON, SUNBURST
A giant among giants; flower spikes 22 in. long, towering to a height of 6½ ft. Rich copper color suffused salmon and bronze. Pkt. of 250 seeds $1.00.

NEW CALIFORNIA MAMMOTH ZINNIAS
A marvelous creation from the giant double type, a real competitor for the popular Dahlia-Flowered sorts. 6 pkts. of separate colors for 85¢.

NEW EARLY BEAUTY ASTERS
An improved and earlier flowering American Beauty type. 8 distinct and beautiful colors, 8 pkts. for 95¢.

DELPHINIUM, GLORY OF PUGET SOUND
The finest of all American strains. A double flower contrasting a clear blue and delicate mauve. Immense in size, unsurpassed in beauty. Pkt. 50¢.

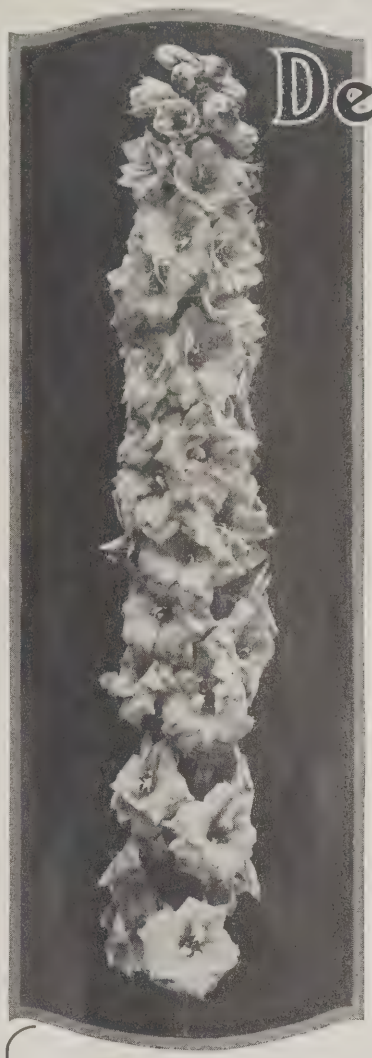
The house of Rock's has been established for over 30 years—"A standard for Reliability."

Many other delightful novelties will be found in our 1928 Garden Book. Write for a free copy.

Rock's

11th and Grand Ave., Kansas City, Mo.

Duckham still leads with Superb Delphiniums



Prized and Praised from Frisco to Maine

There is without question, a prevailing "Delphinium craze" among the American garden loving people, and there are few who can question the fact that in 5 years my Delphinium Hybrids have been largely instrumental in producing this "craze," earning for these noble flowers the tremendous popularity they so richly deserve.

My introductions in past years were the forerunners of the better Delphiniums of the present time and are leaders today.

By the importation each year, of still finer types and new colors, from exclusive English private seed sources, my field rows are continually revealing amazing products of floral beauty, truly *"Wonders of the wily ways of Plant Wizards."*

Readers of this publication, who are within convenient motoring distance of my Madison trial grounds, are cordially invited to visit them during the summer, at which time I shall have flowers of most of the New Types to show.

Prices of my "INIMITABLE MIXED HYBRIDS" are
Per dozen $11.00; Per hundred $85.00

SELECTED TYPES AND COLORS;
not previously distributed.
Each $2.50; $5.00; $7.50; and up.

Descriptive catalog mailed free on request

WILLIAM C. DUCKHAM

Rose and Hardy Plant Specialist

MADISON (Box G) NEW JERSEY

THE MOST UNCOMMON KINDS — Duckham's Hardy Plants — AND MOST GOOD COMMON KINDS

Year after Year They Call for the Same *Old Reliable*

Insecticides may come and Insecticides will go, but The Old Reliable "Slug Shot" seemingly carries on forever. That was the way in which a prominent Eastern Seedsman nicely summarized the insecticide situation. Now used by the third generation throughout the land, this "Gold Medal" remedy has earned the lasting esteem of American gardeners. Since 1880 it has aided the nation to combat Potato bugs, Currant worms, and other leaf chewing insect pests. It does not injure the foliage and is absolutely harmless to man, bird, or beast.

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Other Hammond Gold Medal Insecticides

We offer remedies for nearly all evils that may befall your garden, be it outdoors or under glass. All Hammond Insecticides have stood the test of time—they are used by leading horticulturists throughout the country and heartily endorsed by this country's foremost seedsmen.

Thrip Juice

Kills all soft-bodied insects such as Aphis, Red Spider, etc. Has never failed to do the work in over forty years.

Hammond's Grape Dust

has for 36 years, proved an effective mildew remedy, especially valued by greenhouse owners. Equally useful outdoors, and equally effective as a spray or in powder form.

Copper Solution

is a great fungicide. A great cleanser with which to fight and remedy Blight, Rust, and Mildew.

Buy in Quantity

The larger the quantities bought, the cheaper become the insecticides. Ask your dealer or write us for your copy of "Insects and Blights" offered below.

Sold by the Seedsmen of America

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"Insects and Blights"

is the title of our yearly Booklet, now in its 42nd edition. You'll find it useful, holding many practical suggestions how to get more pleasure and less worry out of your garden. Sent free on request and please mention G. & H. B.

Hammond's Gold Medal Remedies are sold at most Reliable Seed Stores

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BEACON NEW YORK

Azaleas and Rhododendrons

Blaze with color in Mid-Spring

THESE native American shrubs, in which we specialize, are fulfilling our vision of their usefulness and utility. They are delightful all the year, giving of their best from May to July when ablaze with bloom of rich shades of white, rose, pink, and reddish purple. Native to the coldest sections of the Appalachian Mountains they are at home over a wide territory, and the nursery-grown product stands most unusual planting situations, affording unexcelled character and value to small plantings as well as large grounds.

Our constant effort has been to build up here at Stroudsburg a great quantity and variety of size in the finest of quality. We have reached this goal, and offer nineteen varieties of these ericaceous plants that are worthy of inspection.

From our stations in the Virginias and North Carolina we offer personally supervised collecting service for carlot requirements of this grade.

A booklet telling our story and giving cultural directions in full will be mailed on request to interested planters east of the Mississippi River

LaBars' Rhododendron Nursery

1109 BRYANT STREET STROUDSBURG, PENNA.

Catawba Rhododendron

LILAC-PURPLE and soft lavender blended into a gorgeous mass of springtime color; glossy leaves, glistening under the mild rays of sun; these charms of the mountainside come to you when Catawba Rhododendrons bloom on your grounds.

At the porch entrance, around the foundation walls, in groups along the drive, or at the edge of the woodland, native Rhododendrons are at their best. And where the soil is favorable no evergreen shrub is lovelier or more valuable. In my stations in the mountains I have these Rhododendrons.

In Almost any Quantity and in Varying Sizes

I can furnish solid, compact clumps by the hundred or by the thousand. Sizes vary from 3 to 7 feet, and the price is exceedingly low. You may select an assortment of sizes if you wish. Send for my special list which gives full details.

I also have native Azaleas, Laurel, Pieris, Firs, Spruces, native perennials, Lilies and native Orchids

E. C. ROBBINS *Gardens of the Blue Ridge* **Box 7, Ashford, N. C.**

The Best Month of Spring to Plant Hardy Perennials

Frankly, we don't know of a better month to set out hardy plants than April. All the conditions seem just right. Such being so, you can't quite blame us for urging you rather strongly to order at once, and get every advantage of April planting.

Dianthus Caesius Grandiflorus — Cheddar Pink. Just one of the many Pinks offered in our catalog to be used in the rock garden or as an edging plant.

FURTHERMORE, what is true of rock plants is true of all of the hardy plants, and many Lilies. April is an ideal month to plant them.

Hardy plants, which some like to call perennials, are grown in great quantities by us, and ours are used extensively by the country's best and most known landscape architects.

The reason is, we ship absolutely no weaklings. If we are out of best grade plants, we are out, that's all. We sell nothing but strong 2 year field-grown specimens that give immediate results.

If that is the kind of plants you are looking for, we would be glad to have you send for our catalog, and we will give your order our characteristic careful attention. Remember April is the month of months to plant all kinds of plants and Lilies.

Wayside Gardens

E. H. Schultz, *Pres.* — *Mentor, Ohio* — J. J. Grullemans, *Sec'y-Treas.*

U.S. Pat. Off.

Flowering Hawthorns

dressed in their Springtime garments of dazzling red, shimmering pink, or pure white, make an irresistible appeal for the privilege of being a part of an exquisite woodland vista, or for performing the more plebeian but useful purpose, that of impenetrable hedge.

We offer you the following:

White Hawthorn—2–3 ft. size $1.00 each, $9.00 per 10
3–4 ft. size $1.50 each

Pink Hawthorn — 2–3 ft. size $1.00 each, $9.00 per 10
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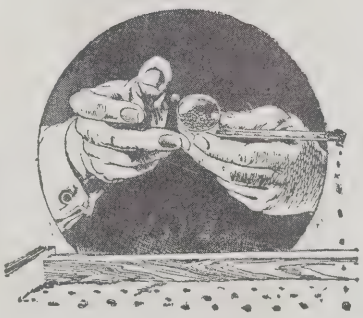
Paul's Double Scarlet Hawthorn
3–4 ft. size $1.50 each, $13.50 per 10
4–5 ft. size $2.00 each, $17.50 per 10
(Special price by the hundred)

If you haven't a place for Hawthorns, we have a nice lot of flowering Crabs, Dogwoods, Nanking Cherry, and other flowering trees.

May we send you our catalog?

George D. Aiken, Box V, Putney, Vermont
"Grown In Vermont, It's Hardy"

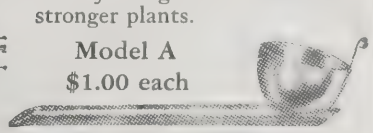
GIVE YOUR SEEDS A HEALTHY START



Let Sowrite Do all your sowing this spring

At the touch of a finger, seeds slip through Sowrite's slender tube—scatter evenly and correctly—seedlings come up separately and grow to better and stronger plants.

Model A
$1.00 each



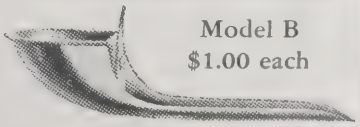
Distributes all FINER seeds. Made of transparent fiberloid. Metal slide regulates flow perfectly.

Sowrite Seed-Sower
Sows Seeds at a Touch!

Enables the amateur to sow the smallest seeds with the skill of the professional.

Even if you have only a few packets of seed to sow, you will save its price many times by obtaining more and stronger plants.

Model B
$1.00 each



For all LARGE seeds up to size of sweet pea. Made of copper, nickel plated.

FOR SALE by Joseph Breck & Son, Burnett Brothers, Henry A. Dreer, Inc., R. J. Farquhar Co., William M. Hunt & Co., W. E. Marshall & Co., Inc., Henry F. Michell Co., Martin C. Ribsam & Sons, Max Schling, Inc., Max Schling Seedsmen, Inc., Stumpp & Walter Co., J. M. Thorburn & Co., Vaughan's Seed Stores, Hosea Waterer and other seedsmen.

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777 FIFTH AVENUE **NEW YORK, N. Y.**

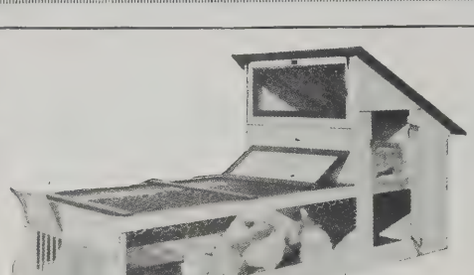
And we will forward the order to our nearest distributor without delay

THE CLASSIFIED DIRECTORY

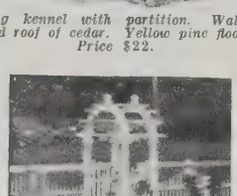
Readers are offered our assistance in finding Properties, Poultry, Dogs, Livestock, and Accessories. There will be no charge for this service. Write to C. Kircher, Manager, CLASSIFIED DIRECTORY, GARDEN & HOME BUILDER, 244 Madison Avenue, New York.

Dog kennel with partition. Walls and roof of cedar. Yellow pine floor. Price $22.

Old homestead bird house. 10 rooms; 16-foot pole. Price $15.



Laying house for 12 hens. Price $35.



Archway and picket fence, made of cedar painted white. Arch and gate $38. Fence $1.50 per lineal foot.

WHEN it comes to attractive outdoor equipment for your country home, think of Hodgson. There are Hodgson-built houses and furnishings for every purpose. Beautifully made of selected cedar. Painted, stained and finished to the last detail. Free illustrated booklet X, it tells about

Rose Arbors, Garden Houses, Trellises, Play Houses, Garden Seats, Pergolas, Bird Houses, Dog Kennels, Picket Fences, Lattice Fences, Pet Stock Houses, Tool Houses, Poultry-houses, Play Boats

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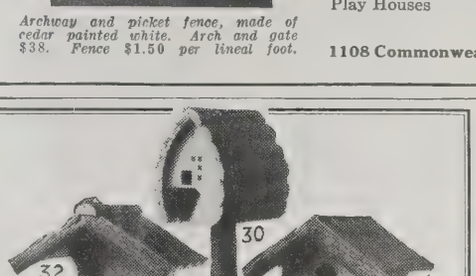
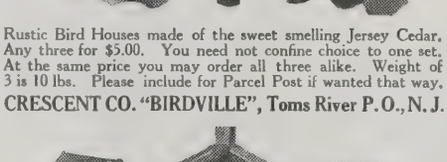


Rustic Bird Houses made of the sweet smelling Jersey Cedar. Any three for $5.00. You need not confine choice to one set. At the same price you may order all three alike. Weight of 3 is 10 lbs. Please include for Parcel Post if wanted that way.

CRESCENT CO. "BIRDVILLE", Toms River P.O., N.J.



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Lovely Lady Amherst Pheasants

(Chrysolophus Amherstiae)

Whitest of white breasts surmounted by rich, deep blue, bright yellow, ocean green, and flaming scarlet. Broad white capes barred with jet black. From a base of vivid crimson their long tails gracefully project a curving black and white artistry to every lover of the beautiful in all the world.

Delightfully Soft Voices

Man can never equal these natives of the Garden of Eden. Tame, hardy and well cared for. Pure blooded and rare.

Eighty-eight and 88/100 dollars per pair.

Express prepaid anywhere in the United States

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Prove this Yourself at our expense!

If "Lime Crest" 2 in 1 Calcite Crystals and Calcite Flour, used according to directions, fail to produce better poultry and eggs we'll refund cost of your trial order. *Take the place of shell and ordinary grit.* For details write Dept. P-13

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PHEASANTS

Matured and young stock for private estates, parks, game preserves and breeding purposes. Chinese Ringnecks, English Black Necks, Mongolians, Silvers, Goldens, Lady Amhersts, Melanotus, Reeves, Japanese Versicolor and Linneated for immediate delivery.

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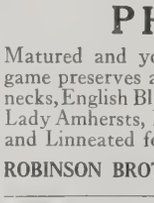
S. C. White Leghorn Chicks. 45 Acres free farm range. 18 Years successful breeding. 10 Consecutive years New York State Certification. Every Breeder Blood Tested for Baccillary White Diarrhea, under supervision New York State Veterinary College. We never breed from pullets. Catalogue on request.

HILL VIEW FARM

H. F. Hendrickson

Bridgehampton **Long Island, New York**



A RUSTIC NEST

For Wrens and Bluebirds

A neat, attractive bird home, most durably made. Easily attached to tree, pole or eaves. Price $2.00 each postpaid. Write for our free catalogue of bird houses, rare bulbs, ornamentals, and small fruits.

Ransom Bulb Nurseries Box 10 Geneva, Ohio

You can *move this fence* to sui your needs

"BUFFALO" PORTABLE FENCING can be moved b simply pulling the legs out of the ground and replacing the wherever you wish—Yet it always furnishes a strong, durab and attractive enclosure that adds beauty and protection your pets.

Regardless of the number or type of pets you have, you nee this rotatable fencing.

TRIAL ASSORTMENT No. 1-A

5 sections 7' long x 5' high
1 section 4' 6" long x 5' high
1 gate 2' 6" wide x 5' high

Sent upon receipt of check, money order or N. Y. draft f $26.50 F. O. B. Buffalo, N. Y. Booklet 80 G sent upon reques

BUFFALO WIRE WORKS CO., Inc.

467 Terrace (*Formerly Scheeler's Sons* Est. 1869) Buffalo, N. Y

"Buffalo" *Portable Fencing System*

GILBERT'S LIGHT BRAHM

Beautiful birds. Bred for egg production and exhil quality. The fact that our birds have been winnir seven years without an exception, at Madison S Garden, proves their superior quality. Our mating season are the finest we have ever had. We can s you with hatching eggs, baby chicks and stock.

A. D. GILBERT **Box 87, Morristown,**

GROVE HILL S.C.D.K. BROWN LEGHORNS

Win all 1st Prizes at New York and Boston 1928. Send for schedule of matings.

GROVE HILL POULTRY YARDS

Wm. Ellery Bright, *Owner*

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Send now for our beautiful catalog Walhalla Wonderful Worth While Ba Chicks, Strong, Husky, Electric hatch chicks from Blood Tested breede Rocks, Reds, Leghorns, Minorcas a Wyandottes. Don't Delay. Write t night. Read what our customers have say in catalog.

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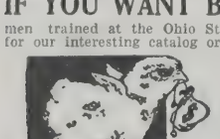

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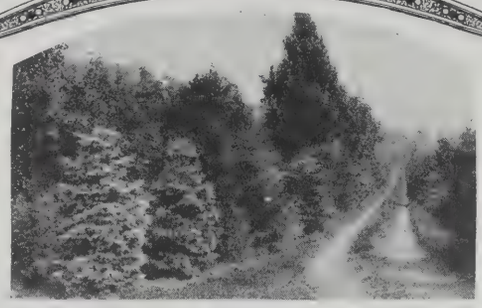

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Is with us once more. Again bountiful Mother Earth has put aside the somber garb of Old Winter and soon will greet us clad in the Exquisitely Beautiful Garments of another new and wonderful season.

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NEW ROCHELLE, N. Y.

GARDEN & HOME BUILDER

Contents for APRIL 1928

Spring Building Number

VOLUME XLVII NUMBER II

Cover design by Abbott Graves
(Courtesy Babcock Art Gallery)

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Building Better Houses

Announcing an Award for Houses of Good Design and Construction that are Built to Sell

TO FOCUS attention upon and stimulate public interest in the better type of building, GARDEN & HOME BUILDER is now offering its Achievement Medal as a mark of recognition for houses which come up to standard.

Many people prefer to buy their homes already built, thus eliminating delay and pother. There is much to be said in favor of this point of view, particularly for busy folk who are not overly insistent upon individual expression. At any rate the fact remains that houses built to sell are shooting up in rapidly increasing quantity and that our present concern is to assure the purchaser his money's worth. Unhappily in this field of activity, as in others, unscrupulous speculation is rife, and up to date the prospective owner has nothing to safeguard him or assure him of a sound purchase. Fortunately, however, there are a number of legitimate participants in this great game of home building who are satisfied with a fair profit and sufficiently conscientious to do the job well; merchant 'builders' they are sometimes called in contradistinction to the cheap-souled speculator who is willing to 'gyp' the poor unsuspecting buyer to the limit. Development companies and merchant builders throughout the country are invited to participate and make this contest (closing April 1st) a success. Two medals, one in silver and one in bronze, will be awarded to the two leading contestants in each of six groups of states, as listed on page 468 of our January issue.

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

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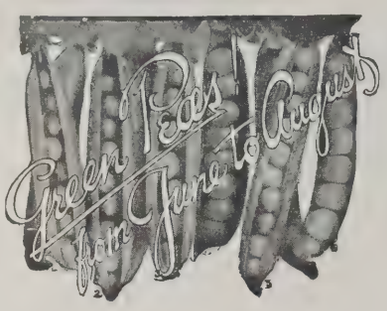
Do You Know This Secret?



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10 Exquisite Rarities that will delight the Connoisseur!

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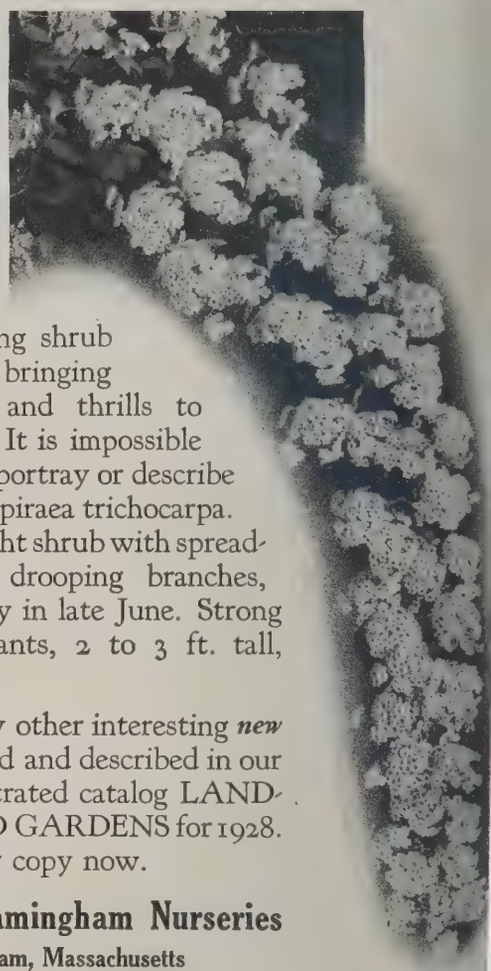

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Showing PACHYSANDRA used as a border covering in a shady drive

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A Sargent knocker of the patriotic eagle design so popular in the early Republic. On this doorway from Bristol is an original eagle knocker. Ask for knocker No. 16.

The "Newfane" is a decorative knocker of authentic Colonial design. Sargent offers other door knockers of various shapes. This one is listed as door knocker No. 9.

DOORWAYS
THAT ARE AN AMERICAN HERITAGE

For classical doorways like those exhibited in the Metropolitan Museum there is correct Sargent Hardware of solid brass or bronze

WHETHER from the leisurely Southern Colonies, from bustling little Old New York, from Quaker Philadelphia, or gorous New England, Colonial doorays must always be associated with he sweep of humanity that has passed hrough them. Notables and citizenry f our early Republic have sounded their leaming knockers, have lifted their rm latches and turned their solid knobs. Such doorways from many of the irteen colonies have been preserved y the Metropolitan Museum in permaent or temporary exhibitions. Doorays like those illustrated, are not only ch in historic associations—they are h artistic heritage of American industry hd craftsmanship. In every detail they ffer a wealth of suggestions for those ho design homes in the American tradition.

The entrance doorway is from Bristol, hode Island, of the early 19th century. ere, the hardware consists of a welcomg brass handle with thumb latch, and patriotic citizen!) a conventionalized Amerian Eagle knocker to tell passers-by of a bme-owner's pride i the new Nation. he Eagle won widespread popularity i the early eighteen hndreds . . . it blossmed as decoration c clocks and woodork, turned up on prcelain ware sold seafaring New Englanders by Chinese merchants, and was a favorite design in builders' hardware.

The interior shows a typical early 19th century parlor "north of Boston." It is from the Eagle House, formerly Brown's Tavern, Haverhill, Massachusetts, erected in 1818. A colorful hunt rides from start to kill around the room on French wallpaper. The door is six-paneled and has a stalwart rim lock with brass knobs. In Early American interiors, rim locks, combining black iron with brass knobs, are always appropriate. On doors of light color they stand out particularly well. The strength of their construction itself suggests sturdy Colonial character.

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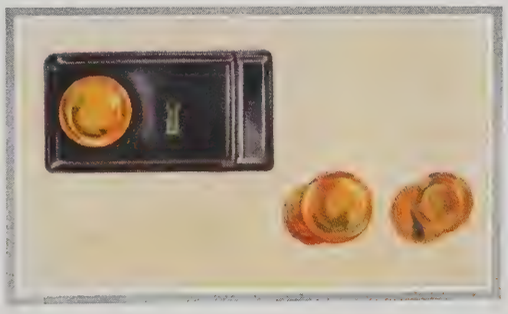
is entrance handle with umb latch, restrained and mple, is particularly suitble for many different Colonial doorways. The accompanying Sargent cylind lock is of appropriate sign. Ask for Sargent entrance door handle No. 3161.

A dead black Colonial rim lock with cast brass knobs and with drop key plate. Lock No. J3525 (also made in solid brass, B3525B). Knobs No. 1608. Key plate No. 808.



SARGENT
LOCKS AND HARDWARE

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JANE COWL — The World's Most Perfect Dahlia!

This is, we believe, the dahlia that comes nearest to deserving the term "THE IDEAL DAHLIA." It is the variety that won the Garden & Home Builder Sweepstakes Medal for the best new dahlia at the last American Dahlia Society Show at New York City, where Miss Jane Cowl chose it to bear her name. At the same show it won 1st prize as best Undisseminated Decora tive Seedling. It was the outstanding dahlia at the American Dahlia Society Trial Grounds last year at Storrs, Connecticut, where it won the Society Certificate of Merit.

If you want to win the sweepstakes prizes, we recommend JANE COWL against any other dahlia offered today. Just imagine the ideal dahlia bush—fairly tall, with vigorous dark green leather thick foliage; stems that are straight and strong though not clumsy; add immense blooms of a rich warm buff and old gold, blending to a salmon center, with tints of salmon, bronze and burnished gold throughout the flower. (The color illustration herewith is not nearly so beautiful as the actual flower. It was made late in the season from an immature bloom.) It is one of the giants of the dahlia world, a full petalled decorative with enough twist to the broad petals to give the deep flower a distinctive beauty. If JANE COWL has a fault, we have yet to find it. Thoroughly tested for three years.

Plants (Delivery June 1st) $7.50 each Tubers (Delivery April 15th) $15.00 each

BABY DAHLIA BUSHES

We have only a few tubers left of JANE COWL, but we will have a goodly supply of strong healthy green plants which we call our Baby Dahlia Bushes. Our green plants are already rooted and growing in pots. They bear even better exhibition blooms than bushes grown from tubers. We pack these husky baby bushes so that you should receive them in first class condition even though you live as far away as the Pacific Coast.

SEND FOR OUR DAHLIA LIST

It has both JANE COWL and our other 1928 novelty sensation MY MARYLAND, in colors. It describes and lists 52 of the WORLD'S BEST DAHLIA, including the outstanding novelties from other growers for 1928.

DOWNS DAHLIA FARMS **Clayton, New Jersey**

Come Into the Garden

T WAS early in the spring when I visited the Home for the Blind at the corner the Grand Concourse and Kingsidge Road, New York City. The day as full of sunshine and the smell of the rth was very reet yet, when saw those blind eople feeling eir way about e narrow path which bordered the yard, I thought of gardens left me and I membered the lines of Milton in 'Samn Agonistes.'

dark, dark, dark, amid the blaze of noon
recoverably dark; total eclipse
ithout the hope of day.

Miss Anne Webb of Islip, Long Island, ie of the directors of the Institute, owed me the grounds and asked if would consider landscaping the yard in e rear of the buildings. The first impulse response to the suggestion for a garden ere was to build one and plant shrubs on e conventional lines of a garden for ose of us who can see. What reason as there for a garden here? We were out to leave when Georgia, a tall ately girl, appeared for her morning alk. She carried with her a withered rose id frequently stopped and held it as if try and drain from it the last suggesn of fragrance.

It was Georgia who gave me the inspition for this garden—a garden of fraance; each variety of plant with its stinctive odor.

A design was drawn up and the garden arted. Radiating from the path which rcles the yard are small paths, each terinating in a rose trellis. The following oses were selected because of their difrence in fragrance: Aviateur eriot, American Pillar, Tausndschon, Doctor Van Fleet, ver Moon, Climbing Americn Beauty, and Dorothy Perkins.

On each side of the small ths are specimen shrubs ch as Weigela (Diervilla) ribunda, Lilacs, Magnolia, Siraea vanhouttei, Mockange (Philadephus coronaris), Flowering Crab (Malus ribunda), Fragrant Upright neysuckle (Lonicera fragntissima), Deutzia Pride of Rochester, Japan Quince (Cydnia japonica), Carolina Allspice (Calycanthus floridus), Sweet-pepper Bush (Clethra alifolia), and Summer Lilac (Buddleia magnifica).

On one side of the grounds, ail back from the main path with a margin of grass ten inches wide, is a series of narrow flowerbeds each bed twelve inches wide in which are planted the annuals such as Feverfew, Snapdragons, Petunias, Heliotrope, Scented Geranium, common flowering Geranium, French Marigolds, and Nasturtiums. Along this border of annuals, thanks to Mr. August Ericson, engineer of the Institute, there is placed a galvanized pipe serving as guide to the blind gardeners from path and from flowerbed to flowerbed.

The plants are labeled with raised metal plates and the names of the varieties in the Braille system are stamped on thin copper.

It was Clara Crampton, blind from childhood, who planted the Nasturtium seeds. She planted them alone and the rows are so perfectly spaced and the seed so well sown, one would suspect that a trained gardener had completed the job. Each day the flowers of the Geraniums, Marigolds and other annuals are examined and the withered blooms carefully removed by one of these blind women. Weeds are also removed and where the plants are too close, as the Nasturtiums are likely to be at the time of germination, they are thinned to the proper space by the same careful hands.

One of the most enthusiastic gardeners is Mary Downey, who learned as a child to love the native flowers of Ireland and, though for many years she cleaned offices in New York City, she never lost her love of flowers. Mary Downey is now eighty years old and she handles the flowers with as much love and care as any mother could her little child.

On inquiring as to the flowers they loved best, they practically all said, 'We love them all.' One girl said she loved Chrysanthemums best because they were big and strong and seemed to be dependable. Another said she loved Pansies because they were so small and tender. Another stated that she disliked big flowers or plants because she always felt they pushed out the little ones.

In the fall the garden was planted to bulbs. While the work was directed by a gardener, all of the planting has been done by the blind folk themselves.

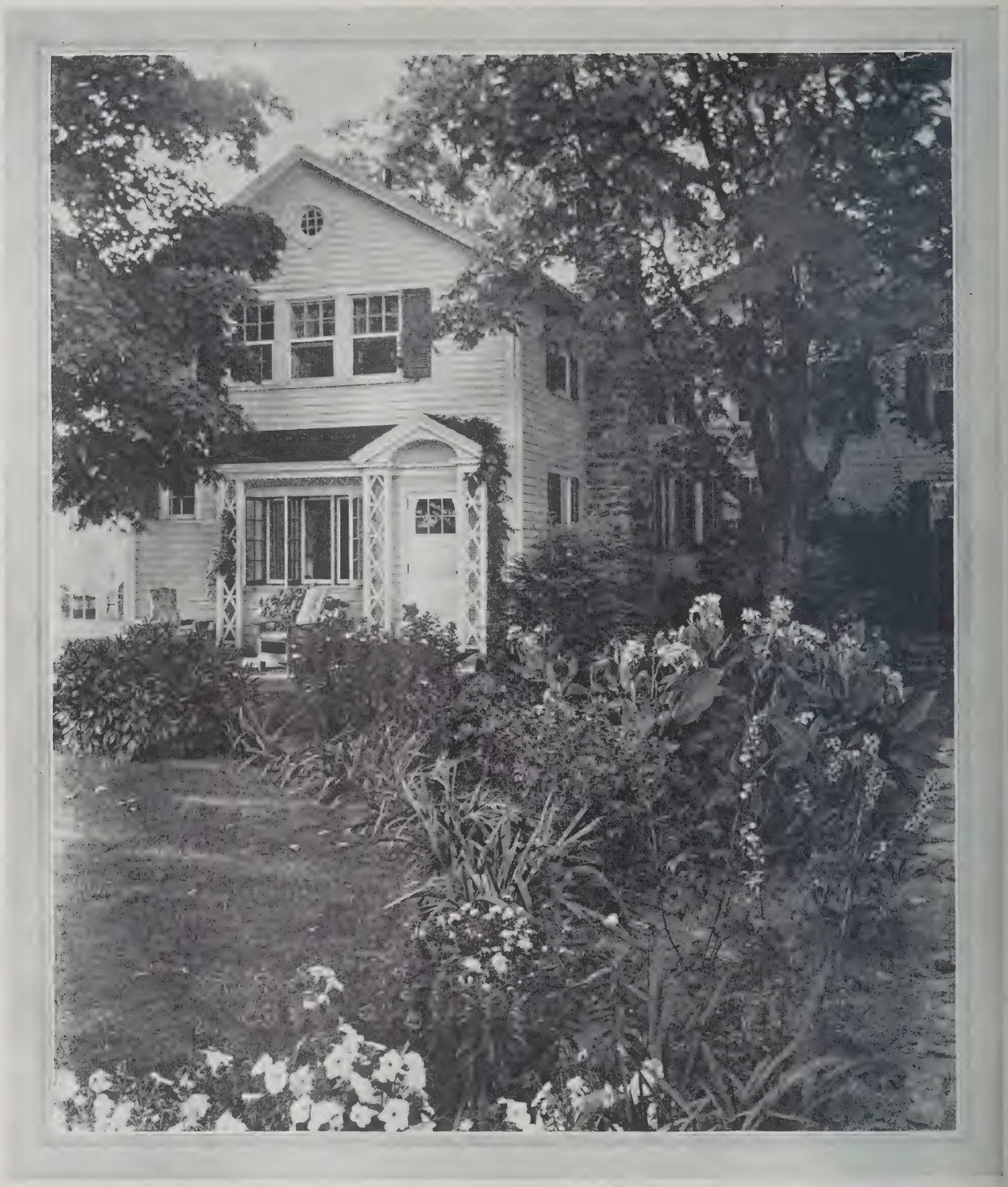
HUGH FINDLAY, Columbia University, New York.

Seasons return, but not to me returns
Day, or the sweet approach of even or morn,
Or sight of vernal bloom or Summer's rose,
Or flocks, or herds, or human face divine.—Milton

The American Orchid Society sponsors an exhibition exclusively devoted to Orchids in Madison Square Garden, New York, May 10 to 12. There have been other Orchid shows in years long gone by but they did not have the backing of a responsible fostering organization. They were more or less freak shows. The forthcoming event is entirely different. We have found out that Orchids are as easy to grow as any other plants that go into a greenhouse—sometimes much more so indeed. They have been removed from the halo of mystery and have become really practical plants even for the veriest amateur.

Another specialty show is the 5th Annual Daffodil exhibition of the Elkridge Club, Baltimore, Md., on April 17.

Leonard Barron



Photograph by Mattie Edwards Hewitt

WHERE COUNTRY SWEETNESS DRAWS THE HEART

Rather a remarkable thing about this garden and yet a thing that anybody can do in any garden if he will only begin now, in early spring, to plan for it, is its autumn effect. This picture was taken in mid-September and all summer long there had been a steady progression of bloom which you will find described in detail on page 145 of this issue. Mrs. Hart Jackson has given her home the euphonious name of Long Lane Farm, and the garden was planned by Alderson & Dell

Seven Rooms for the Price of Six

The furnace in the attic and the cellar as a livable place—topsy turvy types of construction that actually add space

P. E. FANSLER

Associate Editor, The Heating & Ventilating Magazine

THE home you are going to build—and even my mother, at seventy-seven, is hoping to build a little nest so that the grandchildren can visit her—must be planned and constructed with one main thought in mind. In this home, especially if it is the initial venture of a young couple, the thing most to be desired is happiness—a state of mind. But happiness is largely dependent upon a bodily state—comfort.

So, first of all, you want your home to be a comfortable home, and to that end a great deal of thought and energy will be expended before even the first foundation stone is laid. A few hours spent in the study of certain details, or, better, in consultation with specialists in certain lines, may prevent years of discomfort.

Two comparatively new fuels, gas and oil, are becoming available to nearly every homebuilder in the United States. Because of the radical changes in home design and construction that are possible through the use of these fluid fuels, before building you should understand the facts of the matter as viewed by the engineer and the architect.

Two courses are open to you: the new home can be so built that almost the entire basement can be added to the livable portion of the home; or the basement can be entirely disposed of as a relic of bygone days. The former end can be attained with a home already built—many homes have been altered after changing from solid to fluid fuel. The latter procedure is radical, but is justified in nearly all cases.

You don't want a coal bin next to your living or dining room, so, if you followed precedent, you would build a cellar under the entire house in which to put the boiler or furnace and the winter's supply of coal. At least that's what you would do 'up north.' Perhaps you also would have a laundry in the cellar, but the principal use for the underground portion of the northern home is to house the heating plant and the coal. Homes in the southern part of the country do not, as a rule, have cellars, mainly because there is no boiler or furnace, and no coal to store.

When, however, you decide to build a home that will be heated by oil or gas, you entirely obviate the necessity for a cellar because you will use a fuel that is stored in an underground tank outside the house, will be automatically fired, and that will leave no ashes to be removed by hand. A sump or hole about five feet by seven feet, with its floor about three feet below the level of the main floor of the house will do very nicely for the heating plant to live in. Why build a cellar? But if you do decide to stick to the old-fashioned scheme of things, there is no reason why you should not have your architect work out a basement plan that will give you 30 per cent. to 40 per cent. more usable space, with no additional expense as far as the structural cost is concerned.

Particularly if the home is to be built on a hillside does the basement lend itself to this sort of utilization. My own home is of this type—a century-old Swiss chalet—and almost all of the south half of the 'ground floor' is utilized as a dining room. French doors open upon a court yard, surrounded by a low stone wall. Pantry, kitchen, and store room occupy more than one half of the remaining space, and the heating plant, oil fired, is tucked away almost under the stairway, and occupies a space only six feet by eight feet.

So few architects have any appreciation of the possibilities of basement utilization, as the result of using fluid fuels, that it will be difficult, if not impossible, to get constructive aid from that source. You will have to be the dominating force in this matter and insist on having the design shape up as you wish.

Ernest Flagg, a noted architect of large public buildings, several years ago began an interesting evolution in the design of small homes. It was a step-by-step progression, and the outcome is a radically different system of building in which the design of the home is definitely linked with the construction. In the first place, largely on economic grounds, Mr. Flagg eliminated the basement from his plans. Where the area of the building site permits, it is, he says, easier and cheaper to build any required storage or laundry space and what-not on the ground than below ground level. He has demonstrated this to my own satisfaction, and I am sure that you will agree with his thesis when you have carefully studied his arguments and data.

'But,' you will say, 'I must have a cellar for the heating plant—nobody ever heard of having a heating boiler on the roof.' And that is just where you are wrong. Heating plants for huge office buildings and for hotels *are* being placed on the roofs. Space in the basements of city buildings brings tremendous rental. Coal-fired boilers are heavy and burn tons of coal in a day, so heating plants of this type with the necessary fuel must be housed in the basement. But gas is light, and gas-fired boilers are much smaller and lighter than the solid fuel types. So heating engineers are beginning to design heating plants for these structures with boilers on the roof and down-feed to the radiators.

What, then, is to prevent you from having a home designed with a gas-fired or oil-fired boiler in the attic? Nothing at all. It might be considered a radical design, but it could not be condemned as poor engineering. This scheme especially would apply to a boiler burning gas, as the fuel would flow to the burners just as well on the third floor as in the basement.

Again, such an installation would obviate the necessity for a chimney—and chimneys cost a lot of money these days. Neither the gas-fired boiler nor the modern mechanical-draft oil burner requires a chimney for draft production. In burning gas a draft distinctly is not wanted, and a 'draft-breaker' is inserted in the stack pipe to eliminate the draft action of the chimney. The oil burner furnishes its own draft, with a motor-driven blower, so its requirements are not dependent upon chimney height.

Suppose that you want a laundry. Why not have it on or above the ground level, so that clothes taken out to the drying yard need not be hauled up a flight of stairs? The odds are that it will cost less than if built underground; it will be lighter and more comfortable to work in, and it need not be large to house and properly use the mechanical laundry equipment of to-day. Make it a part of the garage and attach both to the house, if you want a convenient arrangement. Then, if you must have storage rooms, also build them above ground for the same reasons.

So you see that a basement can be dispensed with so far as space is concerned. Let us see what this elimination means in dollars and cents. (*continued on page 188*)

Front elevation of the house described below. It is planned for a hillside site and with special consideration for the comfort of a family with children

A House That Considers the Child

Attractive practical, big enough for comfort but not too big for easy upkeep is this dwelling especially planned for our readers

Designed by CEDRIC START

THERE are of course a great many available house plans for the prospective owner, some good, many mediocre, but it is seldom that one comes upon a house which definitely considers the child, curiously seldom when one stops to take toll of the vast number of families whose life literally centers about its younger members. So much is being done nowadays in the way of upbuilding the youngsters, so much stress being laid on education, health, clothes, amusements, summer camps, that it seems a pity to miss the opportunity of developing to equal degree their environment and interests at home. It makes all the difference in the world to any of us—whether we are conscious of it or not—if a room is charming, comfortable, and really our own. It comes to be a place we love and enjoy getting back to. Children, like grown-ups, perhaps even more than grown-ups, crave a certain amount of freedom and privacy, need a spot in which they are at liberty to swing their elbows and sharpen their wits on whatever particularly fascinates them—mechanics possibly or carpentry, paint box or saxophone.

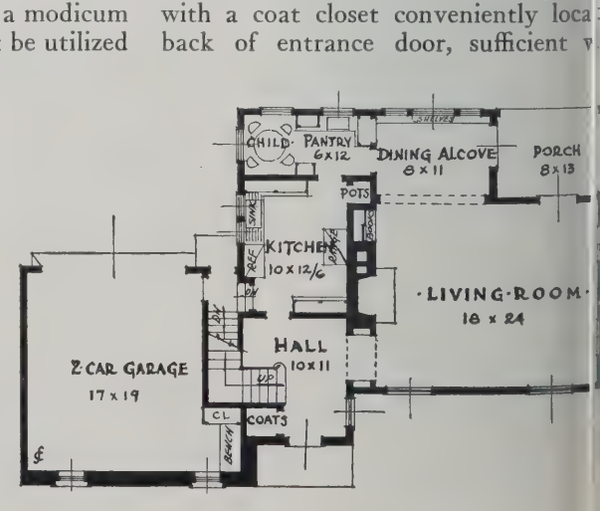
In planning the house shown on these pages the architect has cleverly met this need—and incidentally relieved the rest of the family by concentrating all the turbulent paraphernalia of youth in the wing above the garage. It is a room with a number of exceptionally pleasant features which are described in detail below and might equally well be used as a study, studio, or private quarters for one of the elder members of the family who may want to share roof and meals and yet retain a modicum of independence. Also it might be utilized for maid's quarters if the third floor is not finished off.

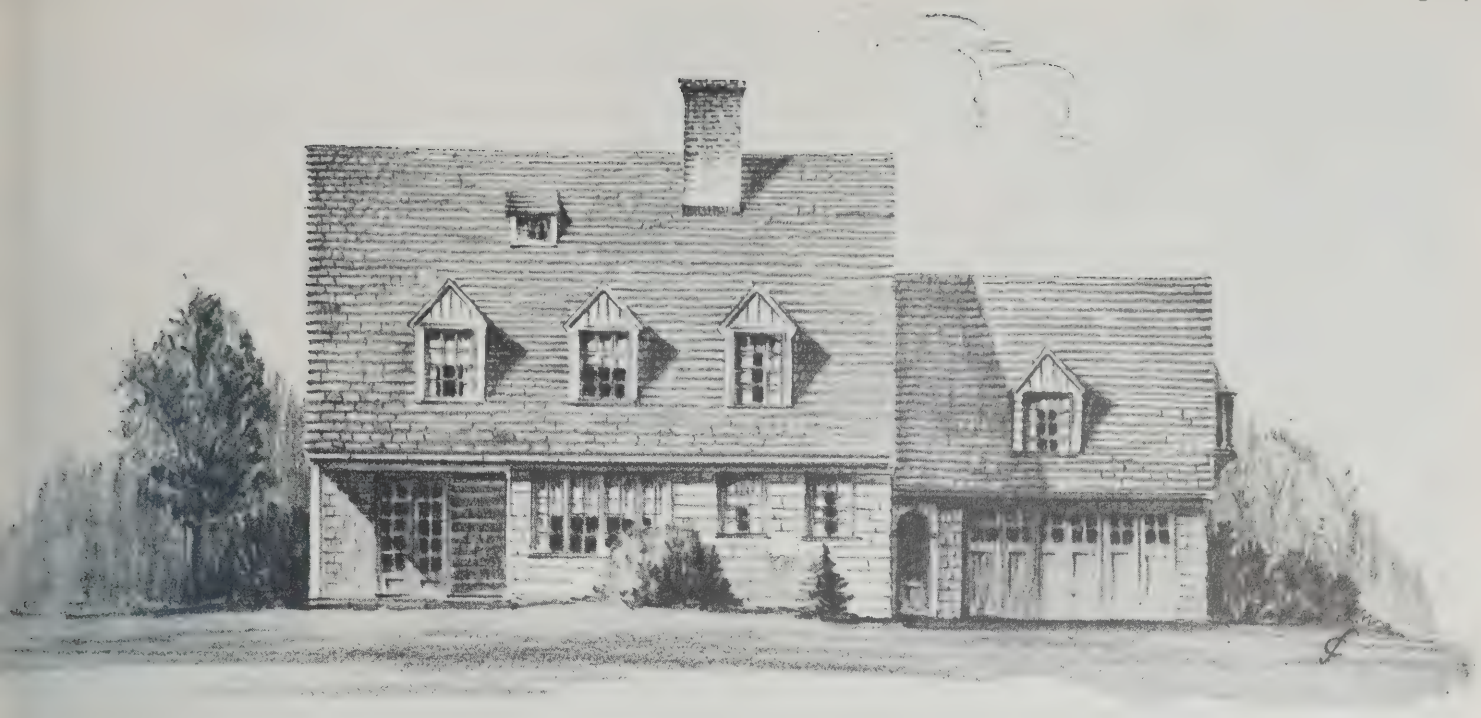
A further noteworthy feature and one somewhat unusual, since the average design is made for flat ground, is the snug way this dwelling sits upon a sharp drop. Irregular land often leads to singularly interesting solutions. Indeed a welcome relief from the commonplace is this house with a decided dash of picturesque distinction.—The Editors.

SUGGESTED MATERIALS AND COLOR SCHEMES

Exterior· Clapboards or hand-rived press shingles stained in mellow b gray tones with weathered effect. Tr soft apple green. Local stone in fr wall of garage wing, laid irregula warm hues. Roof, weathered shin Chimney, brick.

Interior, First Floor—Hall: Spacio with a coat closet conveniently loca back of entrance door, sufficient w





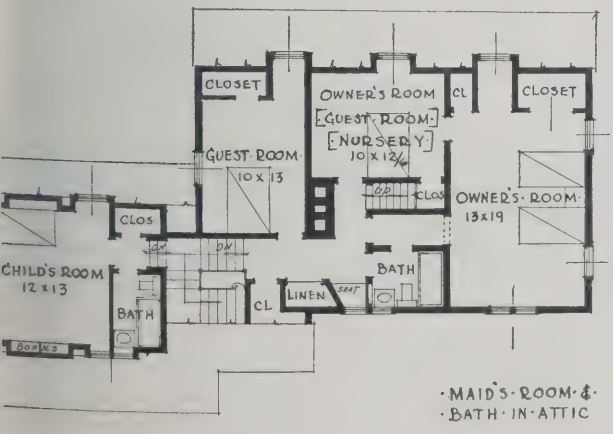
Rear elevation showing garage placement which takes advantage of sharply dropping ground. The front view appears opposite and detailed description below

pace for a console table; and, connecion into kitchen. Trim, pine, colored a arm brown, glazed and waxed. Wallaper with gray-green foliage, weeping illow pattern. Arch to living room f pine with bookcases in the reveal, rightly colored bindings giving a touch f color.

iving Room: Fireplace end panelled in ine, also all trim; fireplace facing of Dutch tiles in brick reds; built-in bookase opposite side from arch with a sliding ack forming a secret cupboard. Walls, ainted light gray-green. Floor, wide oard oak. Opening off the living room re dining alcove and porch, the latter o be screened in summer and glassed in uring winter. Pair of French doors open rom alcove and from living room onto orch.

Dining Alcove: Large enough to hold an ordinary dining table, is full of sunlight and, when not in use, forms a bay feature of the living room. Wall panelled with pine boards. Arch from living room formed by solid rough-adzed posts and lintel. Cupboard in alcove accessible from the pantry through sliding door at counter height. Below this are built-in drawers for silver and linen; and, above, behind glass doors, is a china cupboard (also accessible from pantry through solid wood doors), inside painted red, glazed. There is a shelf under the window for plants and in the center section of window are two shelves for colored glass bottles, ivy, etc.

Pantry: Has sink, two dressers, and broom closet. Woodwork and trim, bright yellow. Walls, light gray. Floor, linoleum in embossed tile pattern, red and brown. There is an alcove with room for table and four chairs which may be used in several ways—as children's eating place, for the family breakfast, maid's dining place or sitting room, or may be made part of pantry with additional shelf and dresser space, or thrown into kitchen giving more space, air, and light.



Kitchen: Entered through passage leading directly to cellar, this feature desirably combines an outside cellar entry with an inside stair. Adjoining the sink under the window is the icebox; range is on opposite wall with connections to chimney. Treatment of woodwork, walls, and floor to match pantry.

Second Floor: Three steps above the stair landing is the wing or child's room with bath which may also be used as guest lavatory. This room opens to ridge and in straight part of walls are recessed book shelves. A cozy window seat at the end adds an ideal touch for the twelve-year old. Trim, soft gray-green. Wallpaper, landscape—reds, browns, and yellows in small pattern on cream ground. Bathroom, done in green with green fixtures.

On a higher level are cedar and linen closets. The small hall to owner's room has an open arch admitting light and furnishing a private entrance to bathroom, blue-tiled with tan fixtures. All second floor trim in French gray and rooms papered; halls in same paper as used below; owner's room and adjoining bedroom in red and yellow; guest room with a suggestion of orchid

By special arrangement with the architect, plans and detailed specifications of this delightfully up-to-date home are available at $25 a set, additional sets, $10, and arrangements may be made for minor alterations which will adapt the design more closely to individual needs. Please address all inquiries to the Editors, Garden & Home Builder, Garden City, New York.

WATCHING THE

Operations that Will

CAPTIONS BY
BENJAMIN F. BETTS

Stone walls are built to a 'line' and 'plumbed' by the mason to assure their being built straight and true and of the correct thickness

The top of the foundation wall is plastered smooth and leveled in preparation for the floor joists and superstructure. Window and door frames are built in by the mason as the wall goes up

Temporary wooden board forms support reinforced concrete floors. Steel reinforcing bars must be correctly spaced. The concrete is deposited and tamped in place to the correct thickness, as shown above

Brickwork is built plumb, level and to a line. The bricks are bedded in mortar. Brick arches are built over temporary wooden forms or 'centers'

A safe and secure method of supporting wooden floor joists on steel girders is by means of iron 'stirrups' or 'joist hangers' made for this purpose

HOME WALLS RISE

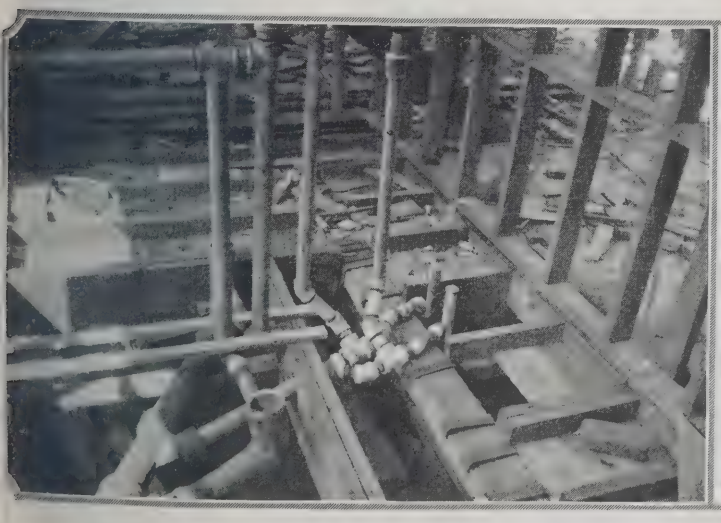
Interest the Home Owner

PHOTOGRAPHS BY
HARRY G. HEALY

By setting the top of wooden joists well above the top of a steel girder, the finished floor will not develop a 'hump' over the girder

Roof rafters must be accurately 'seated' on the wall and securely nailed to the floor joists which act as ties and prevent 'spreading' of the rafters

Oakum and soft lead are used to tightly caulk the joints of cast iron plumbing pipes



Plumbing pipes must be accurately 'roughed in' to assure the correct location of the finished work and plumbing fixtures. Good workmanship and materials are important

Chimney flues should be correctly proportioned, separated by masonry 'withes,' built tight and as straight as possible. A properly constructed chimney is fire-safe

Annuals play an important part in the progressive effect—after Tulip time the center beds are filled with Heliotrope Centefleur and Petunia Rosy Morn

Gardening for Progressive Effect

'Spring house-cleaning' done with a dash of hard-heartedness leads to splendid autumn climax in flower beds and borders

LILIAN C. ALDERSON

TO BE on time with our autumn flowers we must begin to think of them in early spring, while the nights are yet frosty and the earth outside the frames is cold and unresponsive. This requires great firmness and determination, for the way of least resistance is pleasant and beguiling, and it is very much easier to leave alone, in their comfortable clumps, all those tiresome perennials that ought to be lifted and divided, and to give attention to the spring darlings that are clamoring for a space in our borders. Nature is so bountiful and indulgent that unless we are familiar with what a garden may be in the fall of the year we are likely to be satisfied with what it is in the beginning.

But once you have experimented in the increase by division of plants that grow in clusters, like the Chrysanthemum, you will surely try your hand at others, and gradually become aware of a sort of rhythmic progression that is taking place in your flower garden. I suppose this accounts for the wave of enthusiasm in favor of the more informal type of garden that has swept over England and America in the last few years. It is so much easier to be fluid and free to follow one's imaginations there than in the static setting of more formal planting.

Spring is the time to make over your flower borders with a view to later bloom. Certain perennials that seed freely, as for instance Aquilegia, Delphinium, Coreopsis, Campanula, Gaillardia, and Lupin will have come up all over the borders. These plants should be gathered together in groups of three to five, according to the size of the garden. This leaves plenty of space for the late-blooming perennials, most of which should be lifted early in spring and divided to one or two single shoots, each with a bunch of fibrous root and reset closely in groups to give massed effect.

Boltonias, all the Hardy Asters, th Eupatoriums and Heleniums do be when treated in this way. We may als scatter the Pearl Achillea, divided to tw stems, through the border at intervals an be rewarded by a profusion of pure whi flowers that hold their own throug October.

We have to cultivate a certain har ness of heart in the season when natu is most prolific, and picture to ourselv the plight of the timid soul who could n bear to throw away anything. Then, to we should study the habits of the variou plants and if we have only a small spac to grow things in, would do better t admit only such plants as are good mi ers. In a large garden there is room fo all sorts and conditions. One advantag

There is no dying down of interest as the season closes—perennials and annuals keep up a steady burst of color. This photograph, like those on pages 138 and 144, was made in September

of the progressive form of gardening lies in the fact that, in a garden where plants are frequently lifted, there is always an opportunity to enrich the soil—a little well-rotted manure, or a mixture of bonemeal, tankage and wood ash, forked into the vacant places before replanting, will do a world of good.

Accustomed as we are to consider the perennials as the backbone of our gardens, we nevertheless rely on the annuals for much of the floral beauty especially in autumn. Among the loveliest and most beautiful of these there are some that do better in the picking garden than with other flowers—for example, the exquisite Salpiglossis with its golden sheen, the dainty Scabiosa called the Mourning Bride or Pincushion-flower. Their stems are weak, and they need to be grown in rows, where they can lean on one another for support. Asters have a short season of bloom and the beautiful Snapdragons are uncertain. The quaintly fashioned Nemesia and Schizanthus are for cooler climates than our American summers.

Six annuals that never disappoint are Zinnia, Heliotrope, Verbena, Petunia, Marigold and Ageratum, and these should find a place in every garden. Heliotrope is best grown from cuttings, and all but Zinnia should be started under glass, pricked out singly, and kept growing vigorously until they are planted out in May. Zinnia, Mignonette, Sweet Alyssum, Cornflower, and Calliopsis may be sown where they are intended to flower, and a late June sowing will provide flowers for the autumn.

Wonderful effects may be had in the fall by using annuals alone or by combining them with perennials and some of the late bulbs. Some of the following suggestions may fit your plan and please your fancy.

Pink and Blue

Salmon Zinnia and Ageratum Blue Perfection
Zinnias Old Rose, Exquisite, and Salvia farinacea

Yellow and Blue

Calendula Orange King, and Cornflower (double blue)
Calendula Lemon Queen, and Eupatorium coelestinum
Aster Beauty of Colwell, and Helenium Riverton Gem

Blue and White

Late white Phlox Tapis Blanc, and Heliotrope
Ageratum Blue Perfection and Tuberose Single Mexican

Yellow and Blue

Gladiolus primulinus Alice Tiplady (planted late), and Ageratum
Orange Zinnia, and Caryopteris (Blue Spirea, from pots)
Marigolds Mahogany and Golden Ball, and Eupatorium

Yellow and Lavender

Late Branching Aster (lavender), and Calendula Lemon Queen
Boltonia latisquama, and Helianthus Rev. C. Wolley-Dod (for large gardens)

To fill in between and enhance the beauty of the brightly colored flowers, use plants with gray foliage such as:

Perennial	*Annual*
Hardy Pink	Cineraria maritima
Agrostemma coronaria	Lemon Verbena
Stachys lanata	Rose Geranium

In the garden at Long Lane Farm (pictured on page 138, also above and preceding page) annuals play an important part. As soon as the rich golden yellow of the Tulips (Couronne d'Or) have faded, the four corner beds in the center are filled with Heliotrope Centefleur and Rosy Morn Petunia from pots. Planted in rows between the bulbs, whose foliage gives them just the protection they need, they fill the garden with fragrance and soft color from July until frost.

The garden lies on an axis with the long, low, Kate Greenaway window in the living room, and is tied to the house by an informal flagged terrace. There are two levels. The small formal garden is framed by a border of perennials with annuals in front. The upper terrace is ringed around by Hemlocks. The (*Continued on page 188*)

What Is This 'Blacks' Disease of Larkspur?

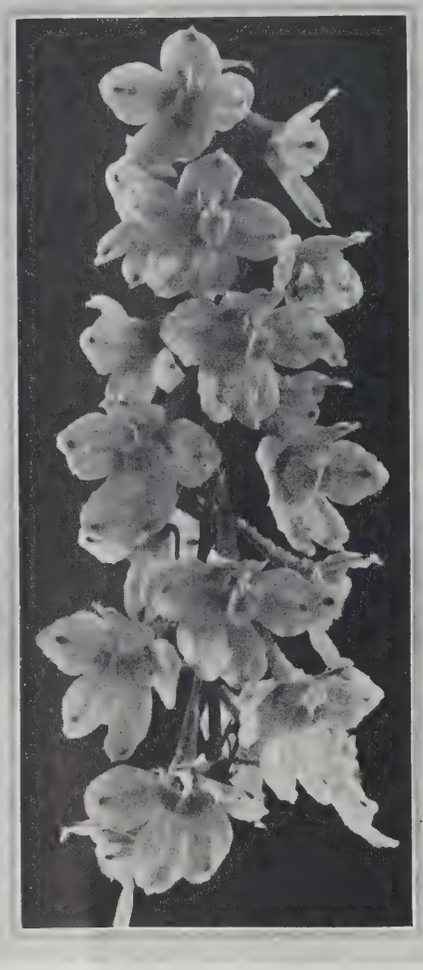
A colorless mite identified as the cause, with nicotine sprays and good cultivation indicated as remedy

W. P. MORGAN

THE increasing popularity of the perennial Larkspur brings the responsibility of recognizing and, if possible, forestalling its enemies under American conditions. The writers on Delphinium culture call our attention to the ravages of root rot (probably Sclerotium delphini or some species of Rhizoctonia) and Delphinium blacks. The latter condition seems to be very common and not restricted to any one region of the United States. Its symptoms and effects are quite variable from a mere spotting of the older leaves to malformations of the flower spike and final death of the plant. Probably several factors are responsible, with the terms rust, blight, bacteria, mosaic, and virus appearing prominently in the descriptions and recommended methods of control.

My interest in this problem has been somewhat passive for several years, and it was not until the past summer that I had time to give it very much continuous attention. One plant of the old Gold Medal strain had been under observation for the two preceding seasons with what had been diagnosed casually as one form of the Delphinium blacks. During the summer of 1927 several seedlings in near-by plantings were similarly affected and the idea was conceived of attempting the development of a blight resistant strain. On reëxamining the garden literature pertaining to the control of Delphinium blacks, attention was drawn to one of the suggested effective items of control: the use of nicotine, which is a common contact insecticide.

My trouble nad been considered to be a virus or fungal disease and correlated with the common blackened undersurface of the older leaves. It seemed unusual to use nicotine in such conditions and, with many questions unanswered, several malformed flower spikes were taken into the laboratory and critically examined. Within the blackened, distorted buds the microscope revealed swarms of tiny (less than $\frac{1}{100}$ of an inch long), glistening, almost transparent mites. These were identified as the 'cyclamen mite' (Tarsonemus pallidus Banks), known as a serious greenhouse pest. Several species of plants including Chrysanthemum, Cyclamen, Geranium, and Verbena have been attacked by this mite in various parts of the United States. Stunting, malformation of leaf and flower, with outer floral segments often gnarled and blackened are some of the effects of this mite upon the Delphinium plant. The leaves, which are affected while very tender, become thickened, glistening and characteristically brittle. Some of the flower spikes partially recover from the effects of the mites but the individual flowers are discolored and dingy. Although the mite itself had not been discovered on my plants until this season there is no doubt that it had been present at least during the two previous seasons on the diseased Gold Medal plant mentioned above. How this fairly common greenhouse pest came to my garden is not known but it seems certain that it has survived two of our sub-zero winters.



Queen of all blue flowers in the garden the Larkspur yet is at times a victim of a disease hitherto not understood

The effect of mites on leaves and flowers of Larkspur while quite young and tender. Too many gardeners are acquainted with this. Photograph by Indiana Dept. of Conservation

With the aid of our assistant state entomologist, Mr. H. F. Dietz, the effects of the mite on Delphiniums were located in several parts of Indiana in private and commercial plantings. The discovery of the effects of this pest on Delphiniums is too recent to permit the collection of data from other states but the present season will probably yield reports from many other localities.

The infestation seemed worst in small private plantings where crowding and artificial watering was practiced. The habits of this mite are, in many respects, just opposite to those of the common red spider (Tetranychus telarius and T. bimaculatus) which flourishes in a hot, dry situation. The cyclamen mite flourishes in moist and shaded places, does not spin a web and is most easily found in the large flower buds of infested plants. Some plants seemed quite resistant to the effects of this mite while others, especially D. belladona and the dark blue hybrids, were very susceptible to infestation.

Liberal applications several times during the season of Black Leaf 40 and lime-sulphur (1 oz. dry lime-sulphur and $\frac{1}{2}$ fluid oz. Black (*continued on page 212*

With abundance of sunshine, space for play and toys, such a room ideally serves the dual purpose of bed and playroom, its corner shelves aiding the small person easily to keep his toys in order

Suggestions for Furnishing the Playroom

Planning a play place for the child that will satisfy him now and create an aesthetic background

SARA McALPIN PYLE SMART

IN FURNISHING a playroom for a child, more than mere rugs and chairs and tables and pictures must be considered. The most important part of this altogether pleasing task is to realize the factor this room is going to be in the child's development. That the character of his likes and dislikes in after life will be affected by his environment when a child is a well-known truism. His room or his playroom, then, becomes more than just a room. It is the spot in his home that will supplement his actual training and do much to shape the 'plastic newness of his little self into grace.'

In furnishing this room it must be remembered that this is *his* kingdom, and it must be furnished to fit and meet his needs. It must be so planned that he himself may, with the greatest ease, keep his strange and numerous treasures in an orderly way. He is not going to be happy in this playroom if he is going to be subjected to constant lectures from the adults in the house because he has made an inordinate mess. Order in a child's playroom can be controlled by the parent if sufficient thought be given to planning it in the beginning. First make a list of what tools and toys are apt to be permanent in the child's environment, then plan a convenient place where each of these articles may be kept. When you have decided as to the space you will require for the housing of trains and tools, etc., you can plan a decorative scheme around these cupboards and shelves. The treasures so dear to your boy's heart may present themselves to you as atrocities. Perhaps they will be strange mechanical devices that have been wrought out of his own dreams. They may offer no beauty of color, no charm of line, but at the moment, from his point of view, they come first in importance. It is for just such treasures that you must be prepared, and they can be taken care of easily by means of a series of shelves and cupboards.

In gayest colors children and animals romp across the chintz covering of this useful toy box and screen. (B. Altman & Co.)

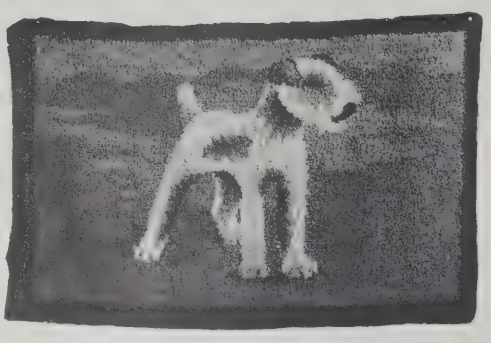
The design of these shelves can be made to fit into some particular portion of the room that lends itself to some distinctive shape. In appearance these shelves should somewhat resemble a bookcase, but deeper than is required for books; and along the bottom, or aptly placed in the center, cupboard doors can be hung to conceal all unsightly toys. These shelves should be left for him to fill and these very shelves can be made to lend themselves to the artistic plan of the room. If you are using pine or maple, your cupboard doors can be made to have the effect of panels, and iron or brass hinges of old design give a charming appearance to the cupboard. If the room is furnished with painted furniture, quite a touch of color can be introduced in this set of shelves.

Another piece of furniture that may be had to conceal toys is a small copy of a kitchen dresser. The shelves on top are for books with the top opening up so that this surface becomes a desk, the base

In these delightful fabrics designed by Tony Sarg, all the favorites of fairyland, the circus and Mother Goose are pictured so pleasingly that these silks are being used not only for the small girl's frocks but for cushions and curtains also. (James McCutcheon & Co.)

being a cupboard for toys. This kind of desk, bookcase and cupboard combined is a great help in a small playroom where space is limited.

More difficult than any toy which is eagerly brought to you to be housed is the set of electric trains. How can they be planned for? Can they be permitted to remain on the floor? Can we never sweep the room? Will the younger children never again find floor space to play on in the playroom? This, I admit, seems to be the most difficult of all his treasures as far as the decorative scheme is concerned, but it may be handled in the following manner. Choose your largest wall space, and along the wall build a long low shelf three or four feet wide and twelve to fourteen feet long. On this shelf screw the tracks, the stations, lights, etc., separately, the shelf being attached to the wall by hinges along the baseboard. When the time comes to put away the trains, they need not be dismantled, but the shelf can be lifted up and hooked against the wall, thus occupying very little space. On the reverse side of the shelf put cork linoleum and here your children can put up their favorite pictures or their latest and most successful drawings. Here their own taste may be displayed in a harmless fashion.



Even the rugs for modern playrooms suggest pets and frolics. Hand-hooked rug from B. Altman & Co.

'Mother Goose at all hours' is the story told by Time on this Seth Thomas clock

Next we must consider how we are to equip the room so that it will help the child to work at his favorite occupations with a maximum degree of facility and comfort. He will, of course, need a desk—every child should have a desk. He can have a pine or maple slant top or secretary desk, which he can continue to use in future years. Then he must have a table with a sufficiently large surface

(continued on page 210)

An appropriate setting in which the child's personality has been carefully considered. Each piece of the maple furniture is a faithful copy of the Colonial (The Children's Center)

Low, built-in shelves, plastered walls not easily marked, and washable rugs make the playroom at the home of Mr. Albert Wilson, Mamaroneck, N. Y., a most attractive spot

WHERE MAN MAY COME AND TAKE HIS EASE AND WATCH THE ROBINS COME

Little Recessed Porches for Open Air Living

Photographs by Amemya and Tebbs & Knell

Both hall and garage wing open directly onto this small open air recess (right) which makes a pleasant half-way place between outdoors and in. The paved terrace directly in front is kept gay with perennials and a sprinkling of potted plants. Barber & McMurry are the architects and the house, at Knoxville, Tennessee, is owned by Mrs. A. A. Yeager

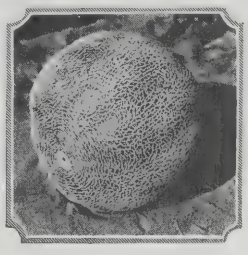
The charm of this scene grows, as so often do the most charming things, out of unobtrusive elements—nice restraint and feeling is evident in the detail of this dwelling with wooden pilasters and arches neatly meeting stuccoed wall. The Apple tree too gives a last friendly touch. Mr. P. J. Goulden's home at Cos Cob, Connecticut; Architect, F. Nelson Breed

Something New in Melons for the Home Garden

Delectable fruits from South France and the Orient that are successfully grown as far north as Michigan

ARCHER P. WHALLON

WITHIN the past few years several new types of Muskmelons of southern European and Oriental origin, that differ conspicuously from the common netted Melons familiar to American gardeners, have been brought into extensive production. The bright yellow globes of the Casabas, like enlarged grapefruit, are now common objects in fruit store windows and in some localities, particularly the Imperial Valley of California, where their production is a gardening enterprise of no little magnitude. But the fact is not as well known that fruits of this type can be produced, with but the taking of a little extra care and precaution, by Northern and Eastern home gardeners. I have had fairly good success in growing several varieties of Casabas, the Persian Melons, and the French warted and smooth-skin Melons in the by no means tropical climate of southern Michigan.



Persian Melon is successfully grown in the author's Michigan garden

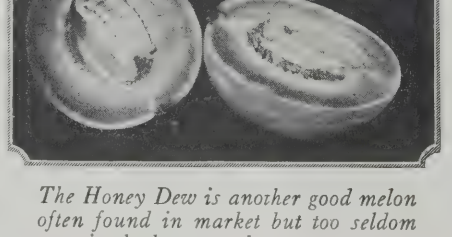
There is, of course, no rigid line of demarkation between the Casabas and the ordinary Muskmelons. They are all Muskmelons and the varieties will cross, but still a half-dozen or more varieties listed as Casabas are of a distinct type that have qualities in common. The outstanding peculiarity is that the melons are not in condition for eating when first picked from the vines and that they will keep in good condition for a month or more—in fact, the melon must be just at the point of showing signs of decay, soft enough so that the rind will yield easily under pressure for it to be fit to eat. Another feature is that the melon is nearly solid—not only is the edible flesh very thick, but the seeds are embedded in a pulp or 'cob'. There is little or no cavity and, when cut open, the melon looks halfway between a muskmelon and a watermelon.

The Casabas are nothing so very new in this country, for the original long-keeping Melon, the Winter Pineapple, was imported from Persia forty years ago. Then followed the Hybrid Casaba (a cross between the Winter Pineapple and the Montreal Muskmelon) in 1899, and the Golden Beauty, now the most popular market variety, introduced in 1906. We now have also the Golden Hybrid, Santa Claus, and the two Honey Dew Melons—a green and a yellow fleshed variety.

The Hybrid Casabas, both green and yellow, are larger than the Golden Beauty, deeper ribbed, the flesh is not quite as thick, and there is a small open seed cavity. Two varieties, Golden Honey and Genoa, seem to have been dropped by the seed trade and from the catalog of a Californian house that specializes in these Melons, with the statement in regard to the Genoa that the fruits are subject to fungus except in very dry localities. This fault is true, to a lesser extent, with all the Casabas and smooth skin Melons. In a damp climate they may be protected by placing shingles or pieces of roofing under them, or by putting them in sacks, or covering with protectors. The Golden Beauty is the most satisfactory variety for the Northern garden and it is one of the finest things that the garden can grow. The big bright yellow Casabas are not only good-looking fruits, but when in the right condition, are fully as good as they look. A peculiar feature of this variety is the pronounced ring at the blossom end of the fruit, and it is generally considered that the bigger the ring is, the better the melon.

Golden Beauty Casaba is delectable fruit which deserves a place in the home melon patch

Other than the precaution of preventing the fruits from remaining in contact with the ground, the Casabas require no other treatment than that of other Muskmelons.



The Honey Dew is another good melon often found in market but too seldom in the home garden

Of course they do best on light warm soi but I have had fair results with Golde Beauty on heavy land. A good way t keep Casabas where there is no dange of hard freezing is to gather them togethe about the hills and cover them completel with the vines, but do not pick them o the vine.

The Honey Dew Melons are les adapted to Northern gardens than th Golden Hybrid and Golden Beaut Casabas, as they are late and require long, warm growing season. The origin green fleshed Honey Dew is in realit the White Antibes Winter Melon grow in France and cataloged by French seed men for many years. White's Favorit Melon has much in common with th Casabas, but is slightly netted and lack their keeping qualities; it is, though, high quality for the home garden.

Some comparatively new Melons sho features of Casaba inheritance, such the Honey Ball, a Texas Melon, claime to be a cross between the Honey Dew an the Texas Cannonball. This is smaller an earlier than the Honey Dew slightly netted, but withou ribs. It is of good quality an of ideal size for the table, bu with me, it had the fault excessive splitting on the vin often before the melons wer ripe. Possibly this was du to an excessively wet seaso and to being grown on heav land.

There are two Oriental Me ons evidently closely relate novelties to many gardener well worthy of trial. Th Persian is heavily netted and withou ridges, the netting of the Turkish lighter and the rind shows a faint strip The Persian is round as a ball and has solid flesh like a Casaba, the large seed being embedded in a pulp.

If you are willing to go further afiel and wish to grow something to astonis the natives and to entertain the famil try some of the many French varieti that well deserve place in American ga dens. Cantaloupe de Bellegarde with ver bright salmon flesh. Vert Grimpant (Gree Climbing) early, small, netted, green flesh Noir des Carmes larger, deeply ribbe smooth skin, flattened at the ends, look like a small green pumpkin.

Jewels for Your Rock Garden

From early spring till November the dependable and fascinating Saxifrages add beauty of leaf and bloom

ANDERSON McCULLY

IN USEFULNESS, garden value, vigor, ease, and attraction, the Saxifrages hold a foremost place in the garden, particularly the rock garden. I have seen very lovely rock gardens in which no other plant grew; but with plants, as with humans, it is an attribute of much importance to be able to live harmoniously with one's fellows. This, too, the Saxifrages do successfully, for they are able not only to furnish the rock garden in its entirety, but also to receive other plants as guests, to provide a pleasing background, or to fill odd spots of bareness. There are two great rock garden groups of these plants: the encrusted and the mossy, which also form two distinct cultural groups. Some of the large-leaved Saxifrages are good in the open border or large rockery.

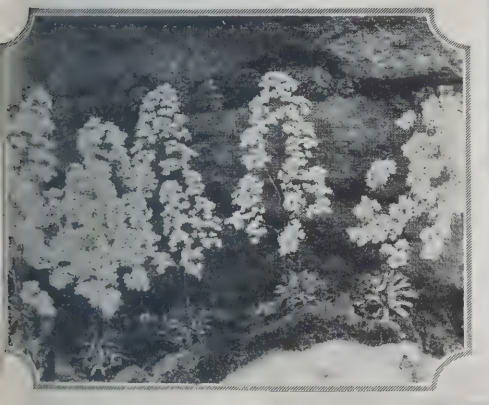
The Silver or Encrusted Saxifrages are the most generally valuable in the rock garden. They form massed carpets of broad-leaved, silver-edged rosettes and will thrive lustily in almost any soil, with or without lime, with or without rock work. Drainage is, however, safer for them, and their esthetic value is greatly increased by this background. As far as that goes, they enjoy a moraine, but they will grow without it. Their preference is for full sun, though they are quite willing to make the best of cooler conditions, provided they have drainage. They are extremely free June bloomers, carrying their flowers in tall loose sheaves of white.

These Silver Saxifrages are best raised from seed sown on a damp moss cushion when it is necessary to use the seedling method of propagation. They are generally increased by their rosettes. Remove one and insert it into moist sandy loam. September is the best month for this, but they generally root at any time unless they are parched.

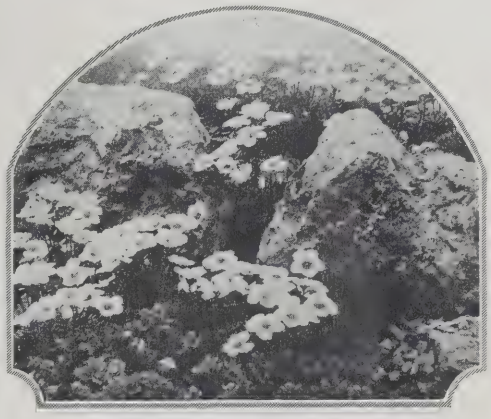
Saxifraga cotyledon is found in most of the mountains of western Europe, and is one of the most ornamental of the garden Saxifrages. There is considerable variation in this as the flower stems of some exceed three feet, and rise from rosettes a foot in diameter. The numerous varieties are easily propagated from the side shoots. Remove these in July, pot them up singly in sandy soil, and keep them in half shade for a few weeks. They root and grow rapidly into large rosettes if all the side shoots are removed from those that show flower.

The largest form of S. cotyledon is the variety icelandica, though somewhat capricious. These are pure white, though they have been so hybridized that dark creams often appear among them. S. macnabiana is one of the best hybrids with larger white flowers densely spotted with crimson at the eye.

Among the very best of all the Saxifrages is S. lingulata and its variety lantoscana. These are both natives of the Maritime Alps and both well worth while. Lingulata comprises many local varieties. It has loose rosettes of long, narrow, silvery (*Continued on page 216*)



Saxifraga cotyledon with flower stalks arising three feet above the rosette of leaves is one of the most surprising of the family



Saxifraga Gloria, a variety of burseriana, is one of the best low growing forms insisting on complete drainage. S. oppositiflora in foreground

Saxifraga longiflora loves a rock crevice and in flower or foliage tuft (a foot across) is quite showy. Dies after blooming

This piece of rockwork about the base of an old water tower is planted largely with different kinds of Saxifrage

Eliminating the Eternal Plumbing Job

Why good equipment plus careful planning spell economy in the long run—some things you can't afford to skimp on

ROGER B. WHITMAN

AN OWNER who was putting up a house on a small building fund was talking with his contractor about the possibilities for economy in material and construction.

'There are plenty of ways for saving money,' said the contractor, 'but before deciding on anything you had better get a clear idea of what you mean by economy, whether it is building your house for little money, or having a house that you can live in for little cost. In one case you'll save money once, while in the other you will save money every year that you live in the house. With one kind of economy you will continually be spending money for repairs and upkeep, while with the other the house will be plainer and simpler, but will go for years without needing to have anything done to it.

'When you must economize in building, save on the surface things but not on the parts that are concealed, or that are so built in that the house must be torn apart when they need replacing or repair. Tint the inside walls instead of putting on an expensive finish; you can do that later. Use hard plaster in the bathroom with the idea of adding the tiling when the money comes in. Get along with simple and inexpensive lighting fixtures until you are able to buy the ones that you really want. That is rational economy. But it is no economy to cheapen the foundations, for instance, or to save money on the roof. Nor is it economy to use pipes for the plumbing that will rust and clog when you can use pipes that are rustproof. In some places you can afford to use cheap material; but in others your real economy will be in buying the best.

'And here's another angle. Building any part of your house will take material and labor, and in a good many cases the cost of the labor may be more than half of the whole bill. It will take just as much labor to do a job with low-grade material as with high; a plumber will have to do as much work putting in a plumbing system with pipe that will clog up or rust out as with wrought iron or brass pipe that will be permanently trouble-proof. When you figure it as a percentage of the cost of the whole job, the difference in price between the cheap and the good pipe is so small that you will hardly notice it. I don't call it economy to save that small difference when before many years you will have to tear into your walls and floors to replace pipe that has gone bad—not to mention the need for repairing and redecorating the wrecked places, or the possibility that a leak may ruin some of your possessions.

'Loss of value is swift enough through depreciation and wear without helping things along with materials that have only a short life. For the hidden parts of a house, use the most enduring things there are, even if they do cost more. Then you'll have real economy.'

The contractor spoke from experience, for a considerable part of his business was in repairing the breakdown or failure of materials so poor in quality that even their cheapness was not much of an excuse for using them. As another example of his idea he might have cited the case of a house owner who asked for bids for the painting of his house without specifying the quality of the paint to be used, and who gave the job to the lowest bidder. When the work was newly done the house looked extremely well; but in six months the gloss was gone, and in another year the paint was in such poor condition that the work had to be done all over again. Paint of the highest quality would not have increased the bill more than $25 and would have lasted at least five years.

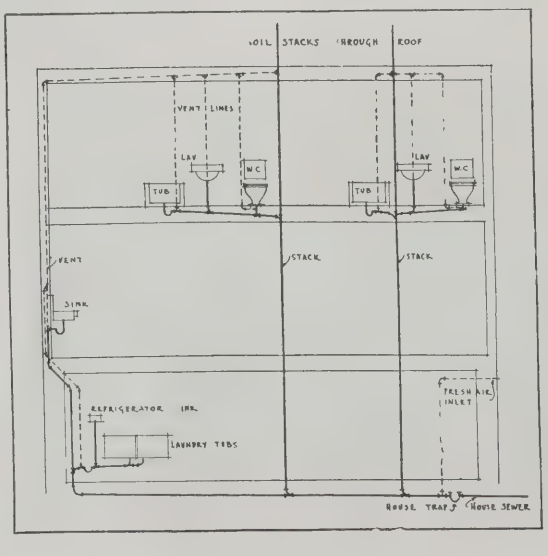
DIFFERENT TYPES OF PIPE

This principle applies particularly to the pipes of the water supply. In years past there was little other pipe to be had than wrought iron, and the satisfaction that it gave was due to its proofness against rust. While pure iron will rust the process of converting it into wrought iron so mingles the particles of the material with slag that moisture cannot reach and affect them, and for all practical purposes it becomes rust-proof. When made into pipe its natural resistance is increased by galvanizing, or coating it with zinc.

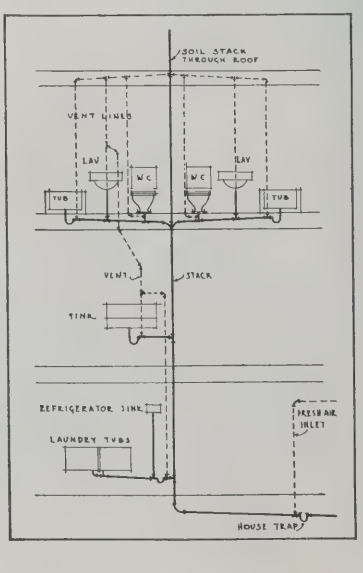
As costing less than wrought iron, steel pipe was eventually introduced. While this also was galvanized, the zinc coating did not adhere sufficiently tightly to prevent rusting, which led to clogging by the impurities in the water. Steel pipe was widely used in residences before its relatively short life became apparent, but in spite of this defect and its promise of trouble and expense, it is commonly employed because of its low first cost.

The short life of steel pipe led to the introduction of brass pipe, although it was higher in cost than wrought iron. A house owner may now choose between two kinds of pipe that are as nearly permanent and trouble-proof as could be desired. This does not apply all over the country, however, for there are localities

(*Continued on page 20*



Typical plumbing section for a house where the bathrooms are far removed and their location has not been considered in relation to the kitchen and laundry. An uneconomical arrangement



Typical plumbing section for a house with the bathrooms closely related and placed over the kitchen and laundry. This is the most economical arrangement that can be obtained

Gladiolus Aristocrats for Everyman's Garden

Forty-eight varieties of full color range in choice quality yet of moderate cost selected by a well-known fancier

CHARLES E. F. GERSDORFF

WHEN your editor suggested the present topic, he also suggested that the selection be limited to three Gladiolus of each color, these three to be among the best known to-day of moderate price. This leaves out of consideration all novelties; hence I have included only those sorts of highest quality which have been grown for a long enough time to insure a supply of stock that may be obtained in fair quantity at reasonable cost.

The American Gladiolus Society has adopted a Color Classification as an aid to the proper staging of this flower according to color, which includes the following *color families:* Pure Pink; Red; Dark Red; Salmon Pink; Scarlet; Cream, Buff and Flesh; Orange; Yellow; Pale Violet; Violet; Rose Pink; Rose; Purple; White; and Any Other Color (meaning, of course, anything that cannot be placed in any of the foregoing). Obviously this official classification simplifies description and has been adhered to in making my recommendations given below; and also before going further, it might be well to explain that the color terms being used are according to Ridgway.

PURE PINK. Arthur Lockwood (Salbach) is a light clear Hermosa pink with 7 to 9 blossoms open. In light begonia rose with creamy yellow throat and many open, Giant Nymph (Coleman) still leads. Hazel Dawn (Decorah Gladiolus Gardens) is like a Hibiscus in form, eosine pink tinged begonia rose, with a lighter throat and 7 or more open; distinctive.

RED. Redondo (Metzner) is spectrum red blotched with black, 6o pen. A tall massive spike. Bertha Howard (Howard) was originated by an amateur, and clearly shows that amateurs may be as skillful in breeding as the more professional man. This is a lighter spectrum red to a throat even lighter which is lined carmine, and has 6 to 8 open. Canandaigua Red (Bill) with 5 open, is a self red, a shade lighter than carmine.

DARK RED. A tall sturdy one is Happy Warrior (Kirchhoff). This is scarlet overlaid with garnet brown with a darker throat and 7 open. Pride of Ashland (Brown) is ox-blood red with its throat stippled white and 6 to 8 open. The darkest of the three, and heavily ruffled, with 6 or more open is an outstanding one—Sir Roger Casement (Diener), in color a blackish maroon, very velvety.

Gladiolus used effectively in garden plantings, the upright foliage giving a relief note to the general horizontal lines. The Howell residence at Cleveland, Ohio

In this border in a Pittsburg garden Gladiolus is used to give variety of texture in foliage as well as color in midsummer

SALMON PINK. Los Angeles (Houdyshel) though not as large as the other two, really may be considered as the leader; it is a distinct break in type, giving many spikes and branches per bulb, a real cut-and-come-again sort. In color it is orient pink to strawberry pink, blotched peach red, and 7 open. Maurice Fuld (Gage) is another choice thing, tall, large, with 7 open. Color is rose doree. Fay Lanphiere (Williams) is a giant flower. Peach red blended rose doree with small blotches of scarlet, with 6 open, combined with its large size, makes this a choice variety.

SCARLET. Red Fire (Kunderd) resembles Scarlet Wonder, except that in color it is a lighter scarlet; 7 open. Childs has put out a sweet one in Sagamore with 7 open, which is deepest scarlet with La France pink medials, blotched carmine. Dr. F. E. Bennett (Diener) will long be hard to beat, flame scarlet to yellow throat which is blotched carmine; a tall one with 7 or more open.

CREAM, BUFF AND FLESH. Ionia (Vaughan) has 6 open blossoms on a very tall spike, and is a blend of cream, capucine buff and orient pink, blotched Eugenia red. Miss Madison (Boynton; Hunt) is a beauty with 10 or more open, in cameo pink over white, the throat being lightest. Break o'Day (Bill) is cream overlaid with La France pink, tips deepest, throat martius yellow lined with red. It has 7 open, and is now a very popular sort.

ORANGE. Fischer's name stands for quality and originality. You have both in his Dr. Isabelle D. Kerr; a peach red blended with flame scarlet with throat of orange yellow blotched scarlet which is shaded maroon and 9 open. Marnia (Kemp) with 6 open is pale orange yellow overlaid with peach red; throat light orange yellow lined scarlet. In Flambeau (Metzner) we have a brilliant flame scarlet that has 6 to 8 open.

YELLOW. Cleopatra (Bill), a very deep yellow with satiny finish, with 6 to 8 open, is outstanding. Claremont (Salbach) with 5 to 7 open, is distinctive, a light yellow with deep yellow throat. A lighter yellow which has 7 open blooms, giving a very fine massive spike is Betty Darnell (Kemp). (*Continued on page 206*)

In the author's own garden at New Rochelle, N. Y., a mass of standard varieties of Tall Bearded Iris effectively edge the vegetable plot

Flowery Edges to Vegetable Plots

Consideration of color, height and blooming time brings its own reward

ETHEL ANSON S. PECKHAM

VEGETABLE gardens are nice if neat, and they have a certain decorative value. It is a truth that a square of Cabbages is well set off by a border of flowers. I am a fierce advocate of flowery edges to vegetable plots. A border such as described here is splendidly backed by Currant bushes or Raspberry canes, so, no matter if the Man of the House 'needs the ground for vegetables,' steal a piece, and have an Iris and Rose border.

Personal likes and dislikes are never more prominently shown than in a garden. The great difficulty in gardening is that when you get beyond the first stages, you are apt to become interested in some one group of plants, and unconsciously collect more of them than necessary for a perfect balance either in your own make-up or in that of your grounds! The lover of Irises will feel that Roses are merely incidental, and the Rose enthusiast will think the Irisarian crazy. On large places some manage to avoid pitfalls by having separate gardens for the big plant groups; but personally I object to the segregation of plants except in botanical or study gardens.

In my own small garden I have too many bulbous plants and far too many Irises, while Roses are just adjuncts. M sort of plant-lover begins with 'rose beds that rapidly develop into a few Ros bushes hugging each other for company with annuals and biennials and Gladiolu set out in groups between and with edge on the lawn side formed of colonies c bulbs and herbacious perennials while o the path side of the bed the margins ar made with rock plants and bulbs.

Miss Flora Mitten, a soft pink Hybrid Wichuraiana Rose which makes a delightful edging

The Roses are selected from the foo proof sorts that bloom often during th summer and are more or less disease resistant. There are but a few varietie and several plants of each. I am carefu about using red and allow only one re spot in the garden, keeping the othe colors pale. The Roses used here ar Hybrid-teas (such as the Radiances) Polyanthas, a few Briars, Conrad F Meyer, a Hybrid Rugosa, and a number c good Climbers. (*Continued on page 194*

A Little Garden For All Seasons

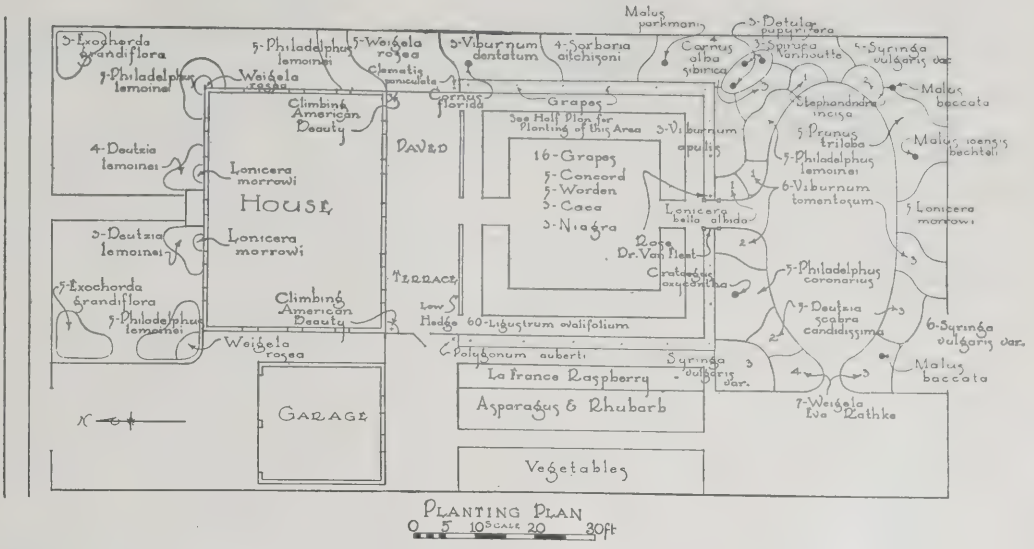
Fourth in the series of different types of little personal gardens

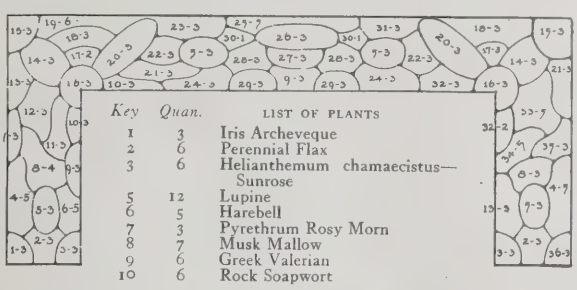
CLARENCE FOWLER, Landscape Architect
New York City

IT MAY be surprising that I have used no evergreen material in an all-seasons garden, but it is my opinion that there is entirely too little stress laid on the beauty of shrubs during the winter season. To my mind there is great beauty in the natural shapes of the shrubs when they are not spoiled by too much pruning. This is also true of the trees and semi-dwarf trees that could be used on a place of this sort. Evergreen material, such as we so often see around the typical suburban place, is in most cases attractive enough when put in, but mostly young forest trees are used that are going to outgrow the situation in which they are placed.

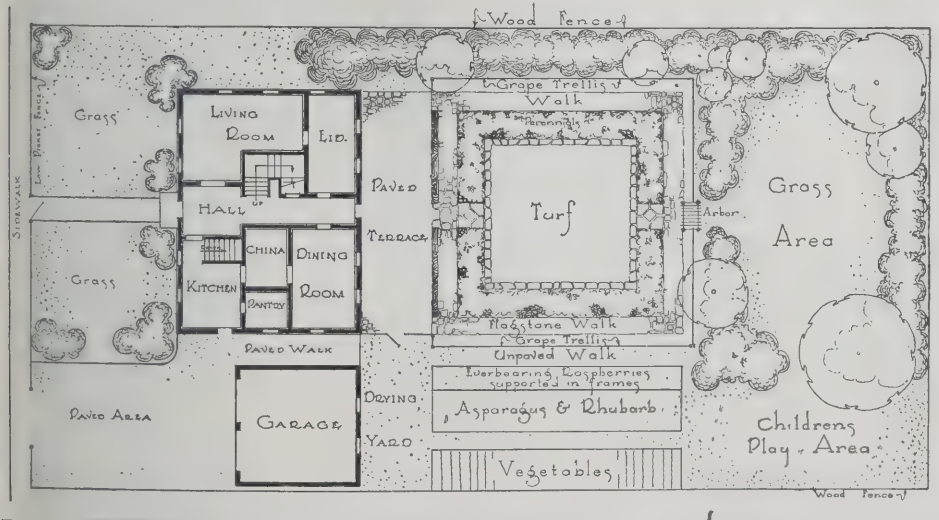
I have also left out all ericaceous material as being expensive, and in addition, if it is to be used in a limestone country needs special treatment of the soil. The cost is kept within $500.00 for the planting materials, but all landscape design, especially on a small place, needs more or less architectural details and treatment, such as trellises, arbors and walks.

The total given in the estimate of cost below does not include cost of house





Key	Quan.	LIST OF PLANTS
1	3	Iris Archeveque
2	6	Perennial Flax
3	6	Helianthemum chamaecistus—Sunrose
5	12	Lupine
6	5	Harebell
7	3	Pyrethrum Rosy Morn
8	7	Musk Mallow
9	6	Greek Valerian
10	6	Rock Soapwort
11	3	Veronica longifolia subsessilis—Speedwell
12	3	Phlox Miss Lingard
13	6	Campanula glomerata —
14	6	Phlox Elizabeth Campbell
15	6	Iris Navajo
16	6	Heuchera sanguinea—Coralbells
17	5	Papaver orientalis Mrs. Perry
18	6	Aster nova belgi—St. Egwin
19	6	Nepeta mussini—Gray Catnip
20	6	Astilbe W. E. Gladstone
21	6	Stokesia laevis—Stokes' Aster
22	6	Anemone japonica Queen Charlotte
23	3	Torrey Pentstemon
24	6	Fringed Bleeding Heart
25	5	Persian Daisy
26	3	Astilbe arendsi—Pink Pearl
27	3	Aconitum fischeri Monkshood
28	6	Veronica spicata
29	6	Campanula carpatica turbinata
30	2	Cimicifuga foetida simplex—Kamchatka Bugbane
31	3	Platycodon mariesi — Maries Balloonflower
32	5	Caucasian scabiosa
33	5	Eupatorium coelestinum—Mistflower
34	5	Golden Columbine
35	3	Pink Turtlehead
36	3	Iris—Quaker Lady



terrace, seeding of grass areas, small fruit and vegetable garden planting, nor cost of garage paved area. It is assumed that the whole lot has been graded and fertilized before the laying out of the garden is begun.

If it is necessary to budget cost, gravel or crushed bluestone could be substituted for the flagstone in the garden walks.

Estimate of Cost

Construction				
Trellis and arbor—material and erection			$100.00	
Flagstone walks—material and laying			394.50	494.50
Trees				
3 Betula papyrifera	5–6′	height	4.50	
1 Cornus florida	6–8′	"	3.50	
1 Crataegus oxycantha	4–5′	"	1.25	
2 Malus baccata	5–6′	"	6.00	
1 Malus ioensis plena	5–6′	"	3.00	
			18.25	
Cost of planting			2.00	20.25
Shrubs				
117 Shrubs		@ .75 each	87.75	
Cost of planting			10.00	97.75
Vines				
2 Vines		1.00	2.00	
4 Roses		.75	3.00	
			5.00	
Cost of planting			.50	5.50
Perennials				
187 Perennials		.35	65.45	
Cost of planting			8.00	73.45
TOTAL COST OF PLANTING AND CONSTRUCTION.				$691.45

An Early Start in Seed Sowing

Gaining four to six weeks by starting indoors in boxes

T. H. EVERETT

IN MANY cases it is desirable, and in some essential, to steal a start on the season by sowing seed indoors before outside conditions are kind. If you have not the convenience of a greenhouse do not despair. You may sow in pots or flats and stand these in a garden frame or even within a dwelling house. To the possessor of a greenhouse the raising of early seedlings will normally form part of the annual routine.

A frame is sufficient protection to allow a month or six weeks to be gained, and its handling gives but little trouble. During bright sunny weather ventilation must be given freely, at the same time avoiding cold draughts, and on cold nights a covering of burlap or similar material will prevent damage by frost.

Conditions inside the ordinary house are not quite so favorable, and a little thought must be given to the choice of a situation. A light window in a room opening off the living room and having a maximum temperature of 65 degrees will be just right. In most instances, the living room itself will prove too warm, but on very cold nights the plants can be removed there temporarily, or sheets of stout paper may be placed over them as a protection from chills.

Do not pay too much attention to hard and fast formulae as to the kind of soil to use, but go out into the garden where the soil is rich and mellow, where last year potatoes, celery or some other liberally manured and deeply cultivated crop was grown, and bring in about one third as much as your seed boxes will hold. If it is frozen it must be first allowed to thaw. Then pass it through a half-inch sieve and you will have a loam to be modified (according to its character) by the addition of other ingredients. First, add humus either in the form of leafmold or peat moss. If decayed, flakey leafmold is procurable, it is to be preferred; but, otherwise, use the peat. About one half as much of this material as there is loam will prove sufficient. Then add enough clean sharp sand to render the whole friable when thoroughly mixed. It is the mechanical condition or texture of the soil rather than its chemical constituents that really matters. A good compost should be a pleasure to handle and when examined closely small flakes of leafmold should be clearly discernible between the brown particles of earth and the whole interspersed with tiny grains of sand. It must be just moist enough to cling lightly together when pressed in the hand, but the texture should be such that it falls apart at a slight touch.

Pots, pans or shallow boxes (flats) will be required according to the quantity of seed to be sown. Into the bottom of these place one inch of broken flower pot or coarse cinders, to insure free drainage; and cover with a few rough leaves to prevent the soil from washing through. Now fill in with the prepared soil to within three quarters of an inch of the top, taking care to press it moderately firm with the tips of the fingers, and finish off with a surfacing of half an inch of the same soil passed through a quarter inch sieve. See that the surface is perfectly level and then water thoroughly with boiling water with the aid of a can fitted with a fine rose. This serves a dual purpose—it destroys any foes which may be lurking in the soil and obviates the necessity for further watering until the seed has germinated.

Stealing a start on the season by sowing seed indoors—seedlings of Blue Laceflower are already well up in the left hand flat and Begonias will soon make their appearance in the other two receptacles

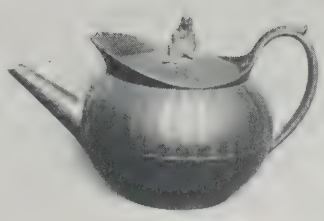
The actual sowing of the seed next demands attention and here I must sound the oft repeated warning to sow thinly—thinly being, of course, a relative term, for as a general rule the finer the seed the thicker it may be sown. Very minute seed will not require any covering because it falls into the soil cavities, but most seed may be covered to just its own depth with fine soil, or even better with sand. Then place a sheet of glass over each pot or flat, to retain the moisture; and exclude strong light by covering with sheets of paper.

Constant vigilance must now be maintained. As soon as the infant plants appear above the soil remove the glass and paper and at the first signs of surface dryness water must be given through a fine rose. These early days mean a great deal to the future of your plants, and care expended now is like 'bread thrown upon the waters.' Give the young plants all the light possible and take pains to avoid excesses of moisture or dryness. In warm weather admit air freely, never allowing the temperature to rise above sixty degrees.

When the second pair of leaves has developed your plants will be ready for transplanting into other boxes or small pots, using a compost similar to that already mentioned, but in a little roughe condition. See that the soil in the seed box is well moistened and then lift each plantlet very carefully with the pointed end of a wooden label, avoiding damaging the roots. With a blunt-ended wooden dibber make a hole in the new soil large enough to accommodate the roots without any suspicion of cramping. Press the soil gently about the young plant but watch that the stem is not damaged in the process. As each box is completed water with a rose-can and shade from very bright sunshine for a couple of days. The shading will be unnecessary when the roots have taken hold of the new earth and then as planting out time draws nigh, gradually accustom the plants to outdoor condition so that they will not receive too violent a change.

Tomatoes and Peppers, Asters, Stocks, Morning-glories, Nasturtiums, and hosts of other popular plants may be raised by following these instructions; and by the way, why not try Dahlias from seed? Many beautiful kinds can be raised from a packet; it is really very simple, and they will flower freely during their first year.

Lovely as a piece of statuary is this Chelsea goat and bee jug from the Goodale collection



Teapot of Wedgwood black basalt ware. Metropolitan Museum of Art

Wedgwood Jasper ware, a triumph of ceramic art. Courtesy Metropolitan Musuem of Art

Heirlooms of Yesterday and To-morrow

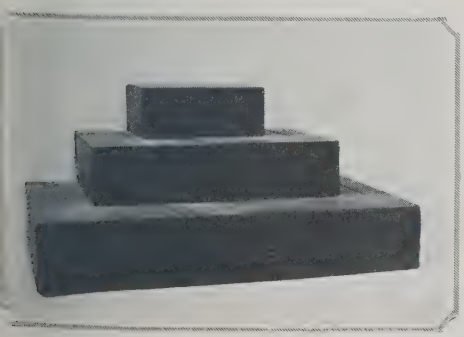
Sidelights on furniture and furnishings that continue to intrigue—how to distinguish the genuine

ESTHER SINGLETON

...z Bohemian ...standing cup ...the collection ...rs. Charles H. ...n, New York

THE highboy is one of the most popular and attractive pieces of furniture sought for by collectors. It was a favorite in Colonial times; and although it came into fashion in England in the time of the Stuarts, it was developed in the American Colonies. The highboy was made in ...l the Colonies, varying as to wood, ...ze, form, proportion and ornamen...tion. The earliest style was a stand ...-a plain table with one drawer on a ...ame of five or six spindle legs—and a ...se of four long drawers, each shallower, ...ntil the plain slab at the top was reached. It is the Eighteenth Century highboy ...at is the favorite to-day, particularly ...at made of mahogany and brightened ...th handsome wing-shaped key-plates ...d handles. The shape is still that of the ...se of drawers on a frame; but in the developed type the legs are of the cabriole, or springing, form, ending in the plain hoof feet (as seen in the accompanying illustration) or the later ball-and-claw feet. The cornice of the highboy is frequently finished with a scrolled top, having a little pedestal in the center on which it was customary to place a pretty piece of china unless the cabinet-maker had already carved there an urn, or a 'burning torch.' Frequently urns, or burning torches, decorated the two ends beyond the sweeping scroll; but if these were not present then a piece of china was used to ornament these bare ends. Very often, too, the square drawer at the top (and also at the bottom) was carved into a fan, or rays of the sun. Handsome pieces, too, often have fluted pilasters at the sides.

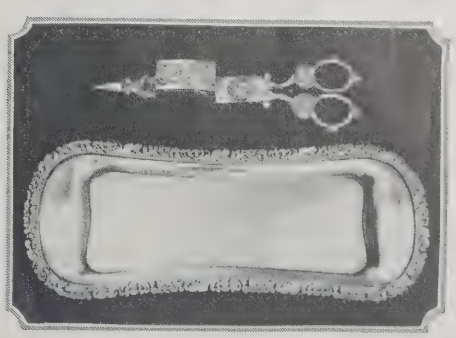
The most elaborate specimens were produced in Philadelphia by William Savery: these now bring fabulous sums. One made by *(continued on page 190)*



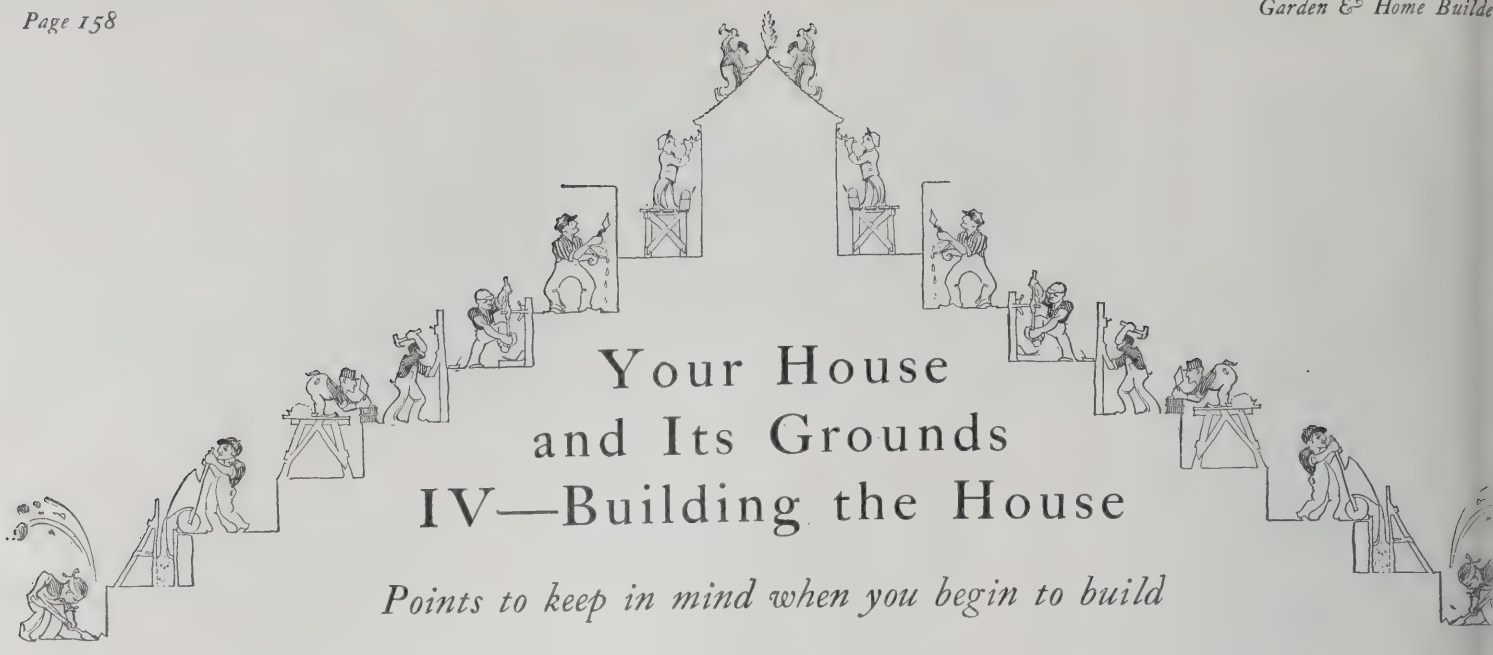
To effectively display the china treasures on top of highboy or cupboard, china steps were used. Courtesy Metropolitan Museum of Art

Of many uses were the tall highboys that lend a note of dignity and beauty to 18th Century homes. Courtesy Metropolitan Museum of Art

A rarely beautiful banjo clock from the Flint Collection. Courtesy of W. & J. Sloane



Exquisitely fashioned were many of the old snuffers and trays. This from the Metropolitan Museum of Art is of Sheffield plate



Your House and Its Grounds
IV—Building the House

Points to keep in mind when you begin to build

J. F. YEWELL, Architect and L. W. BRIGGS, Landscape Architect

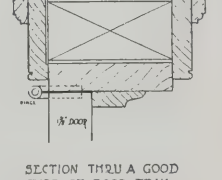
THE person who starts to build suddenly finds himself the director of quite a new and complex type of organization. His position is to some extent a very difficult one, for his education along the many and intricate lines of building is quite naturally limited, as he has undoubtedly been busy with other matters up to the time when he is called on to decide questions relating to types of construction, heating plants, electric fixtures, etc. It may prove helpful, then, to discuss here the most important steps in the building operations and their significance to the prospective home owner.

First of all, obviously, drawings and specifications are necessary to guide the builder. It must be apparent that endless confusion would result from oral instructions, or even rough sketches, especially if given by those without technical knowledge. Allowing the contractor to prepare plans is just placing the owner at his mercy, both artistically and financially. The builder who offers a free plan, or the planner who offers to build, is in a position to secure a very large profit, owing to the fact that there will be no competitive figures of cost. Not only do drawings show what your house will look like, and the sizes and relations of rooms, but the plans and specifications permit the securing of a number of estimates.

The discriminating owner, who is not satisfied with having just the ordinary type of home, similar to hundreds of others, will find that a fee paid to a capable architect is the least expensive part of the house. There is a satisfaction in owning and occupying a home built to suit one's needs and ideas of beauty.

Although the cost of the services of an architect is well justified, it may seem quite formidable to the person building a small home. Fortunately for this class of prospective owner the American Institute of Architects has sensed the situation, and has formed a bureau to select designs suitable for small houses. These designs are published in the form of sketch plans and perspective drawings. Complete working drawings and specifications for them may be purchased for a nominal sum. Another method of obtaining inexpensive plans of good artistic houses is to make your selection from drawings submitted in various properly conducted Small House Competitions. Where the program has been carefully prepared and judgment has been by capable architects, there will be found many excellent designs. It is well to acknowledge the superiority of those which have been considered deserving of prizes and mentions. In most cases the working drawings and specifications are available at small cost. As a rule most stock plans are made to go on a level rectangular lot.

Of course the purchase of ready-made drawings and specifications leaves the matter of superintendence of construction for the owner to handle. As this is a phase of building that requires years of training it can not be imparted to the inexperienced person in an article or even in a book. Without supervision from an architect's office it is of extreme importance that the contractor be both competent and honest. Keep in mind that the lowest estimates, the best brains, and the most honest purpose do not always go together, and that a modicum of caution is not at all out of place.



Section through a good type of door trim which not only saves material and labor but adds interest

Assuming that the prospective home owner has secured the drawings an specifications, the next step is to obta estimates of the cost of construction. rigid investigation of the reputation any contractors asked to bid is strongl advised. Do not ask or allow a man figure unless you are willing to have hi do the work. Copies of the drawings ar specifications are sent to the competi contractors with a request that bids in before a set time.

Usually on opening the estimates a wi range of figures is found. This is accounte for in several ways. A builder who is sho of work will bid lower than he would if had plenty. Few contractors are really the same class as far as workmanship concerned. What some consider first-cla work is actually second-class or wor Some sacrifice quality f speed. Some men are unable estimate accurately. In this ca if the job went to an honorab contractor he would live up his estimate and follow t specifications, but it is or natural that a man will try every way to make a prof Some deliberately count substituting inferior materi and workmanship so that th can submit a low bid and g a profit. Do not allow the c to be too strong an influe in letting the contract.

In the relations between the owner a the builder, it should be pointed out th the latter has the great advantage of ye of experience in building. The compete architect, however, also has such expe ence, and his knowledge of the 'tricks the trade' is one of the reasons for t value of his services. When the contrac is capable, honest, and does his work i

manner that will cause the owner to recommend him to others, there is little to fear from the standpoint of construction, if drawings and specifications are clear. However, there are always decisions of importance to be made as the work progresses. Many builders, although reliable and experienced, have no conception of design, and will, in ignorance, make suggestions and do the work in such a manner that the effect intended by the designer is completely lost.

The matter of 'extras' is one of the most troublesome parts of the building program. They are the things which were not anticipated in the plans or specifications, and were therefore not included in the cost estimate. Great precautions should be taken to provide for everything in the original contract, for alterations and additions later are the chief causes of difficulty with the builder. Study well the drawings and specifications before starting work, not after.

To comment briefly on preventive measures, first try to visualize the house from the plans and sketches, so that no great surprises will be felt as the structure grows. To be very sure of yourself compare with actual rooms sizes of rooms you are planning to have. Carefully analyze the relationship of the rooms. Furniture can be laid out on heavy paper on the same scale as the plans and each piece cut out so that it can be moved about on the drawings and satisfactorily placed. When the furniture has been located, sketch it on the blue prints of preliminary plans which have been approved so that positions of lighting fixtures, swing of doors, base plugs, etc., may be accurately determined. Changes on paper at this stage are easy and cost nothing, whereas alterations on working drawings or in the house itself are costly.

Before the final payment is made to the builder, it is important that the owner assure himself that everything has been done in a satisfactory manner. As the work proceeds, if any cause for complaint should arise the owner should immediately report it in a letter to the contractor. Copies of these communications should be kept in case of lawsuit or other controversy. Before making an objection be sure it is reasonable and is not contrary to the drawings and specifications.

If you are supervising construction yourself give attention to the following items, assuming of course that they are included in the contract.

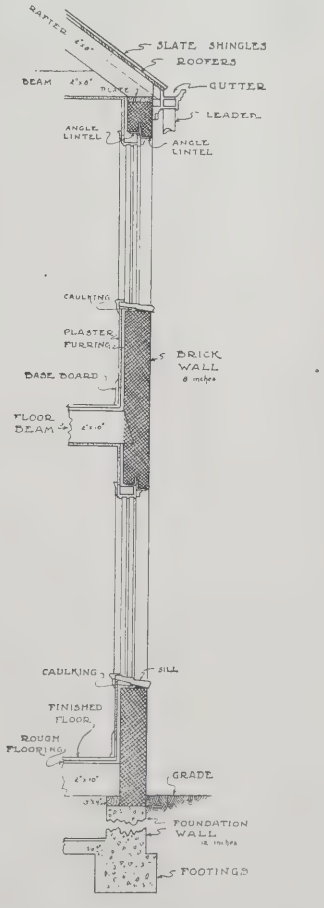
PREPARATION OF THE LOT

See that all valuable trees are adequately protected, and the men cautioned against cutting branches or building fires too near. Shrubs in the field of operation should be transplanted. If there is a sidewalk, protect it from heavy trucks. Be sure the house is accurately staked out, with batten boards placed beyond the actual house line so as not to interfere with the excavation. Have top soil removed, not only from the area covered by the building, but for several feet outside. Pile it where it will not be covered by subsoil or trash.

EXCAVATION

Except in hard clay or stony soil, all walls, regardless of the material used in them should have footings. Soil under footings, and walls without footings, should be firm, in order to avoid settlement in masonry work. Unless the soil is very compact and firm see that earth banks are not used as part of the forms for concrete. Where soil is soft insist upon forms entirely of wood.

After mason work is in place, see that backfilling or the earth-fill in the space between wall and bank is done in fairly even layers and wet down in order to form a compact mass. Back-fill should be high enough at house to cause water to flow away from house. Earth under concrete floors should be levelled, filled if necessary and allowed to settle for some time before concrete is placed.



Section through typical brick construction showing the way materials should be put together

MASON WORK

Concrete should be poured in forms. Mixture should be at least one part cement, three parts sand and five parts stone or gravel. Do not permit the use of very wet concrete, as water seeps through the joints in forms and takes cement and sand with it, robbing the mixture of much strength. Water is not visible in good concrete. If cinders are used in concrete of cellar floor or in fill for bathroom floors, be sure that they are steam cinders and not gas house cinders, as the odor of gas in the latter remains forever. Areas should be of the same material and built at the same time that walls are built.

Stone walls cannot be well built when less than 18 inches thick, 20 inches is the standard thickness in some sections. Mortar should be relatively dry, of cement, sand and a small quantity of lime. Methods, pattern, and jointing must depend upon the material at hand, the mechanics that are available, and the taste of the owner. It is impossible to describe or specify the kind of finish desired. Show the contractor an actual wall or a photograph of what is desired.

Brick either for the solid wall or for veneered work should be hard burned. Underburned, pale or salmon brick will disintegrate in time, and permit water to enter if used on exposed faces. Leaky walls are generally the result of poor joints. Deeply recessed joints cause the water to run or be blown inside by the wind. Joints that are flush with brickwork do not always look well and are often porous, unless a jointer is used. The most satisfactory joint, from the standpoint of dryness, is what is known as the weather joint, made by striking the joint with a trowel held with the handle below the joint. This provides a joint which is smooth, sheds water and has a sinkage under the brick, casting a slight shadow.

Concrete blocks, if used, should be tested for strength and durability. Many blocks are built with too little cement. Plain-face blocks are recommended in favor of rock-face blocks, which are but imitations of stone. Blocks exposed above the grade are much improved by covering with two coats of cement stucco. Any of the nationally advertised hollow tiles are good in some kinds of construction. This material is most ideal for stucco work.

CARPENTRY

Select lumber for strength and durability. Labor costs of erecting poor lumber are the same as for good material. The sill, or the heavy timber on the foundation wall, must be anchored to the foundation wall with heavy steel bolts, built into wall. Sill should be *(continued on page 218)*

How to Do a Good Job With Paint

Some pointers that guarantee success for the owner who likes to use a paint pot about his home

ELMER B. HUBSCHMITT

NEARLY all of us who do odd painting jobs around the house have experienced disappointing failures from time to time. Fortunately, such failures are not inevitable or even necessary and can be avoided easily in future if only we know their causes.

First of all it is well to remember that paint, like most other materials, naturally has a limited period of service, also that the life of a paint coating is shortened or extended in proportion to the judgment and care with which the material is selected and applied. For one condition a given paint may be excellent; yet under a slightly different condition the same paint may fail. Furthermore, certain ingredients are known to confer many good qualities; yet if used indiscriminately, they are also known to do harm. It is well then to find out something about paint defects and their causes, for such knowledge will aid us materially in selecting and properly using the right kind of paint for the job at hand.

For instance, slow or improper drying, tackiness, checking and cracking, peeling and scaling, blistering, wrinkling, chalking, translucence and discoloration of the paint film are among the more common defects with which we are familiar. In general, these are caused by one (or a combination) of the following: an unbalanced formulation; presence of too much drier or oxiding pigments; adulterants; improper selection; faulty application or painting under adverse circumstances.

BLISTERING

Blistering is the condition wherein the paint is detached and raised from the surface over which it is applied. The cause of blistering is painting over damp, greasy or resinous surfaces. Under the action of the sun's rays, the moisture is drawn out and gases are formed beneath the coating causing local detachment of the film. Blistering is frequently evidenced on non-absorbent, resinous or oily woods such as yellow pine, cypress and cedar. Blistering is usually a forerunner of peeling. Blistered surfaces must be treated by completely removing the surface affected. A priming coat diluted with turpentine will drive back the resinous material into the wood and allow the paint to penetrate its pores. If the blisters occur but locally, these may be scraped off and the surface sandpapered and primed with a flow coat of turpentine or a thin coat of shellac.

The occurrence of surface cracks on the paint film is known as checking or alligatoring. In aggravated form these cracks extend through the paint coating to the surface underneath. This condition is known as cracking.

CHECKING AND CRACKING

Checking and cracking are the result of an inelastic paint film. The inelasticity is usually caused by the presence of too much metallic drier, rosin oil, or oxidizing pigment in the paint. (The various ingredients are usually listed on the outside of each container.) Rosin oil, which is an oil adulterant, should never be used in house paints as it produces an exceedingly brittle and friable film. The percentage of drier must not exceed 3 per cent. by weight of the non-volatile content of the vehicle of the paint. Except for interior white enamel finishes, zinc oxide should not be used in a greater proportion than 50 per cent. by weight of the total pigment content. It is always well to use a soft and coarse pigment such as basic carbonate of lead (white lead) or lithopone with the zinc oxide so as to offset its brittleness and oxidizing properties as well as its excessive flowing quality. The action of zinc oxide and drier when used to excess is to accelerate the oxidation or hardening of the paint to such a degree as to make the film brittle and inelastic. An inelastic paint film cannot expand and contract under the temperature changes of the atmosphere and the result is a break or crack in the film. If the cracked paint adheres well to the surface it is not necessary to remove the old paint for refinishing, the following procedure being recommended:

(1) Wire brush and dust off the entire surface.

(2) Apply an undercoat rich in raw linseed oil. If necessary sacrifice hiding power in order to increase the oil content. This procedure will help to level out the cracked surface and provide a good anchorage for the new film of paint.

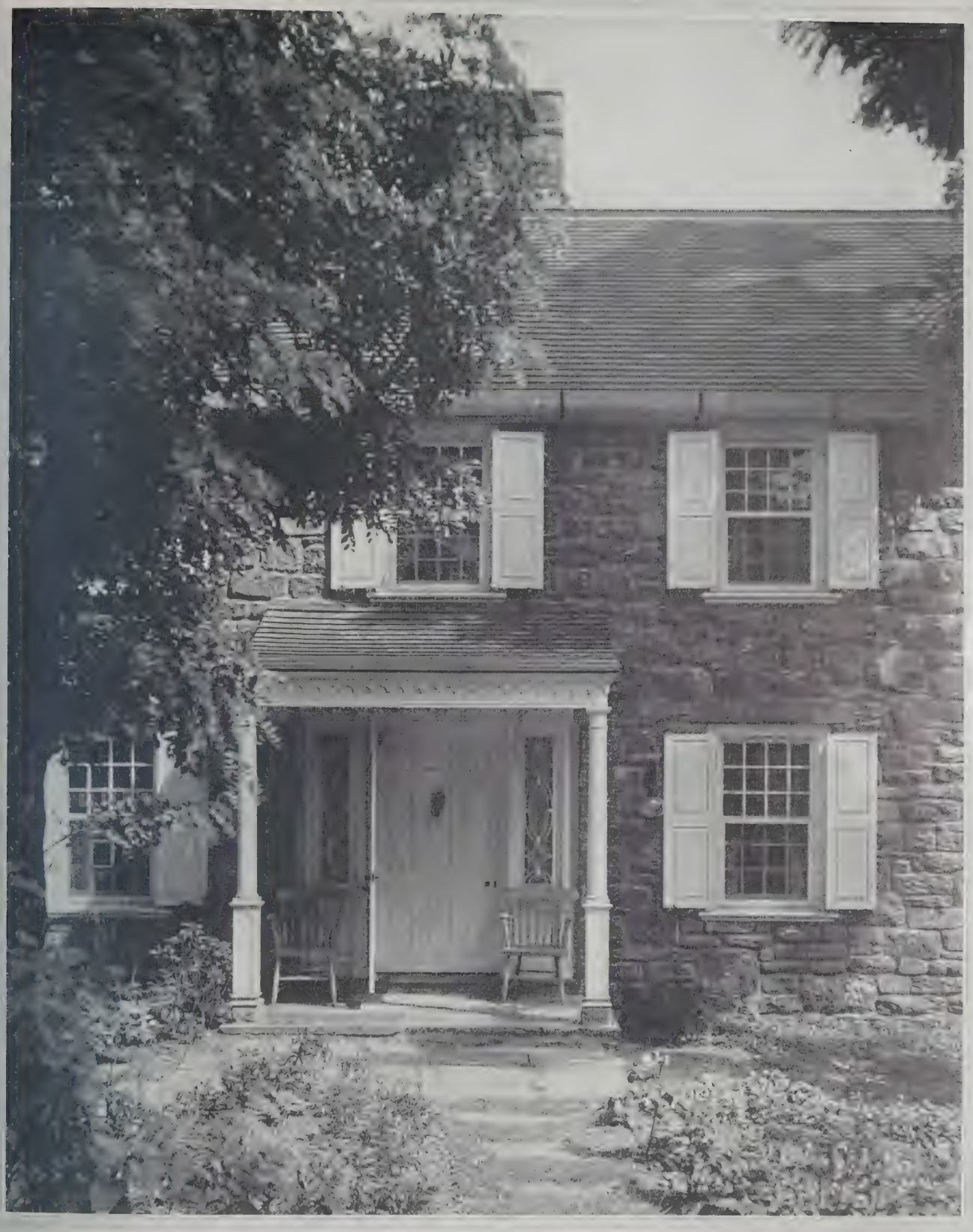
(3) Follow this with a coat of flat paint and finish up with a final coat of paint of the desired finish (i.e., flat, eggshell or gloss). If the cracked paint has a general tendency toward scaling or flaking off the old paint must be entirely burned off, or removed by the use of paint remover.

PEELING AND SCALING

Peeling is the result of a lack of bond or anchorage between the paint film and the surface coated. It is caused principally by painting over wet or greasy surfaces and sometimes by improper priming. To secure adequate anchorage to the surface coated the paint must be applied under conditions that will cause it to penetrate the surface. Painting over a wet or greasy surface is poor practice and usually results in peeling, for the reason that an oil paint will not mix with water or penetrate through a wet surface. Frequently a flat paint is applied directly over an absorptive surface such as a plaster wall. The result of such procedure is that the oil which is necessary to bind the pigment particles together and to secure the proper adherence of the paint film to the surface coated is absorbed by the plaster, leaving behind a film of chalky and brittle material which soon scales off. The remedy in such cases is to apply a priming coat which has enough oil added to it to counteract the absorption of the wall and at the same time, properly bind the pigment together. If the peeling is general rather than localized, the old paint must be entirely removed as described under 'checking and cracking' before refinishing.

WRINKLING

This condition is brought about by applying the paint too thickly. A thick coat of paint hardens uniformly throughout its mass, whereas the surface of a thick coat at first 'skins over' leaving the soft condition beneath the dried outer film. The preponderance of surface tension or drawing together of the 'skin' is not compensated or resisted by the soft underportion of the film and the hardened surface 'skin' crawls, leaving the surface wrinkled. Although a paint which has wrinkled may dry properly and afford protection to the surface coated, it presents a surface which is an eyesore. From the standpoint of appearance the wrinkled surface must either be sandpapered and scraped or removed before refinishing. (*Continued on page 1*



Photograph by H. A. VanAnda

'HERE FRIENDLINESS REACHES FORTH TO GREET'

This doorway with its delicate detail is like a cameo in a setting deliberately massive—The rough-hewn stone here serves to emphasize the beauty of the woodwork. Completely in harmony with the Connecticut countryside is this charming house designed for Mrs. Henry W. Rowe by her architect husband. It is at Greenwich; this view and a number of others were among choice examples of domestic architecture of the less formal type recently shown at the Architectural League Exhibition in NewYork

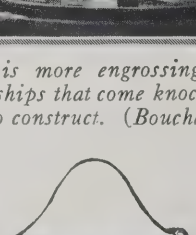
Desk, readin chair, cosy fi —with a notab lack of knic knacks—make room to plea any boy big little

A Bedroom Your Boy Will Like

ELIZABETH LOUNSBERY

Wall lights that come in a series tell of action and adventure. (*Children's Center*)

Nothing is more engrossing for the boy than ships that come knocked down ready to construct. (*Boucher Inc.*)



The old leather fire buckets of another day make unusual scrap baskets (*Children's Center*)

JUST how to make a boy really happy and comfortable in his own room, and yet reconcile his surroundings with practicability and a certain decorative charm, is a problem that arises in many households. In the past, a popular fallacy with mothers was the argument that anything would do for son's room, for he would only break or destroy it. Why not, therefore, furnish his room with the cast-off odds and ends that had accumulated during years of usage?

Fortunately for the present-day boy this thought is obsolete, and now his room is given as careful study as those of his elders, with the intent of creating in him a sense of preservation and an interest in his surroundings. In view of this it would seem that the type of boy and his natural bent should be the first consideration, in order that his taste and preferences may be developed along the proper lines; for, paramount to all else, is the necessity of creating an environment with which he will be in sympathy and of which he will approve. Without this, no matter how great the effort, the room will be a failure.

The endeavor really, therefore, is to teach him how to approve. He will, unconsciously, do this if his eye is train from infancy to really beautiful thing which, though brought down to the chi vision, both mental and ocular, cor prise the fundamentals of good taste a things worth while. Quite naturally, he grows, he will thus become accu tomed, say, to period furniture, pleasi color schemes and appropriate decor tions, even though his understanding them was first presented to him in mini ture. I hesitate to think of what an u trained boy's bedroom would be if he we given free choice in his furnishings.

The boy instinct for accumulati whatever pleases him most, during l play hours, such as pebbles, shells, fis hooks, nails, marbles and the thousa and one things that the average boy u earths, we know not where, would le him, I fear, into making his room a me storehouse for his treasures, with b little consideration of his personal co fort. This tendency, however, should n be entirely discouraged, but should properly trained by providing suitab

drawers and chests in which he may keep his belongings. It is this instinct, developed at an early age, that may make the boy in manhood a discriminating collector of things really fine, and that encourages a competitive interest in owning the best of its kind.

Regarding a suitable size for the boy's bedroom, it may be relatively small because of the convenience of built-in closets and shelves and the added space afforded by an adjoining bathroom or sleeping porch. In a bedroom such as this, after sufficient space has been allowed for ventilation, sleeping, dressing, and storage of clothes, convenience is better served by compactness than by size.

The wall treatment, next, should be determined with two points in mind—namely, cleanliness, and as a suitable background for the boy's selection of pictures and other wall decorations that are not always worthy of prominence on a plain surface. While painted walls, it is true, admit of frequent washings, tack and nail holes that are bound to appear make them even more unsightly than finger marks and scribbling. There is a wall covering resembling plain-toned washable oilcloth, that is highly glazed and thus easily washed, which is especially desirable for a nursery where the child is content to enjoy the decoration of an amusing animal border or of childish cut-out subjects applied to the lower wall space, but unfortunately, it provides, for the boy, a predominating background, that when adorned with his art treasures may counteract any claim to beauty the room may otherwise have. There is something, furthermore, (*Continued on page 228*)

Simplicity coupled with a sturdy durability marks this room for the growing boy. Plain walls make effective background for his favorite pictures, while the draperies and coverlet of chintz in toile de Jouy pattern bring cheer and color

Furnishing the Girl's Own Room

VICTORIA M. LUNDBERG

TO THE planning, decorating and furnishing of a young girl's room there has come the same new note that has blown like a breath of fresh air through every phase of modern homemaking. The girl of to-day is a level-headed little person with a keen sense of being alive. She is enjoying life more, perhaps, than the girls of any other generation. Her every act is freed from many old-time 'don'ts' and this new vitality, this new joy of life, this new freedom finds expression in her room—her very own domain. The words 'finds expression' are perhaps the keynote of the decoration of the modern girl's room, for we have at last learned to let our boys and girls express themselves and be, in fact, the governing spirit in planning their rooms. Their likes and dislikes and their activities are considered, and rightfully so. We decorators to-day, when called upon to plan a room for a young girl, need no longer confine ourselves to the Dresden china effect of pink and blue fluffiness of a few years back. Our present-day girl's room calls for an entirely different treatment, much simpler and more direct, relieved by a dash of brilliant color here and there to lend youth and sparkle.

A charming room is this with color introduced in the pieced quilts, hooked rugs and simple curtains

And always is the personality of the owner given consideration and her favorite color employed.

The shape and size of any room, whether living room or bedroom, has so much to do with the fabrics and furnishings selected for it that in planning this room for a girl, these factors must first of all be taken into consideration. Decoration is, after all, only a conjuror's trick. All rooms have walls, floor space and windows to begin with and the decorator, touching these architectural features with his magic wand, has the power to bring to pass an almost mysterious effect of beauty, as well as physical enjoyment.

In planning a small room, for example, it must be borne in mind that in order to obtain a delusion of space and yet have enough furniture in the room to achieve a feeling of comfort and restfulness, it is necessary to keep the large surfaces, such as walls and floors, rather simple. It also means avoiding the use of dark, ponderous pieces of furniture and strong, garish, dominating colors. The treatment of the walls and woodwork should be given the first consideration. If the plastered walls be painted a faded light rose, the woodwork could then be of a pale blue-green and the floor entirely covered with a plain grayish-mauve carpet. By keeping the color tone of these large areas down, we can stand on the threshold of even a very small room and feel that the walls and floor do not step forth to meet us.

For the hangings of such a room, plain wash taffeta, durable and inexpensive, several tones deeper than the walls, would be most attractive, especially if the curtains be edged with French plaited ruffles at sides and bottom of a plain material of the color of the blue-green woodwork. The valances could be bordered with three tiers of plaiting, the curtains held back by tie-backs with a large rosette swirl. Cream colored glass curtains, hanging straight, of either crisp organdie, plain or cross-barred, or of dotted muslin, would tend to make the whole window treatment delightfully feminine.

The bed for a small room should be carefully chosen, and for a room decorated as the above, a wide day bed with open ends of simple design would be most fitting. This could be painted a deeper tone that the woodwork, a canopy over such a bed proving an alluring novelty. This could be made of a straight piece of the drapery fabric, the contrasting color —rose or green—accomplished in the lining.

The coverlet for the bed could be of a cream colored fabric with a small sprig pattern, with a bolster at each end of the bed with covering of this material.

For a small room, nothing is more attractive than a recessed dressing table (with plenty of drawer space) built into the wall between a wardrobe closet on one side and a cabinet for hats and shoes on the other. A cabinet that might also hold cubby holes for the dance programs and cotillion favors and all those treasures so dear to the romantic ecstasy of girlhood.

In mirror doors we again resort to trickery, since they seemingly increase the size of the room. These inserted in the door panels might be edged with a moulding of silver or gold to match he dressing table accessories. The vanit mirror on the dressing table might be plain triple glass or an oblong glass hun on the wall and framed to match the doo panels. Color can be brought to the dres ing table by means of amethyst glass var ity bottles and jars and boudoir lamp And why not drawer knobs of this sam amethyst glass with the drawers line with silver?

Shelves for books should b in this room. Provide the shelv and the desire to collect goo books will soon follow. An books may be part of the de orations. Book-binding to-da is indeed the revival of the a of another day and in even th inexpensive books may be foun delightful colors to afford a no of accent.

A small comfortable chair o two, of boudoir or slipper siz beside a table with a readin lamp, is always an invitatio Find a reading lamp of th modern type, perhaps of cand form finished in silverlead wi edges of green. Shall we li the bookshelves with silver ar help carry that note throug the room? What a delight, spa permitting, a small chaise longu covered in a narrow stripe green, rose and mauve wou be to while away an hour so between her many soci and sport activities! Use th same stripe on the dressi table bench. Possibly a fo relative cruising in the wate of the land of the midnig sun may have brought back her a gift in the form of a wh bear skin. This thrown in fro of the chaise longue wou be almost more than heart cou desire.

For wall decorations the are always photographs of h intimate friends and one or t delicately colored prints water-colors, intermingled give sparkle.

Since we have recessed t dressing table and allowed sufficie drawers to take the place of a dresser, must surely find room for a painted tab desk and chair.

To come to an end to this delightful b iness of arranging a youthful interior think you will agree with me that we ha not burdened the room with masses useless weight, and yet we have gathe together enough material to bring abo the result we desired—an attractive a inviting chamber and day room.

In this room, decorated by Courtright House, the walls are of pale pink, with gray blue woodwork. Hangings and dressing table of flower patterned gray-blue chintz. Note the windows arched by fitting their boards into original frames

An attic room makes a most desirable 'den' for any girl, and this room is particularly pleasing with its soft tan plastered walls, gay rugs and dark furniture

FLOWERTIME IN TWO GARDENS AT GROSSE POINTE

Near Detroit, Michigan

Darwin Tulips bordering the central walk at the home of Mrs. John S. Newberry, for several years President of the Michigan Chapter of the Garden Club of America, and well known in local garden activities. Forget-me-nots are planted to take up the story when the Tulips pass

Below. Mrs. John Dwyer's charming enclosed garden carries a fine lesson in design. The high surrounding frame and all lines leading to the pool at the central focal point make for repose. Madonna Lilies and Larkspur dominate in the background planting

Insulating the House You Already Have

Practical ways of mitigating weather extremes

BENJAMIN FRANKLIN BETTS
Associate Editor, 'The American Architect'

MANY more of us live in old houses than new—about seven times as many of us if my memory serves me correctly on some recently quoted figures. 'Old' in this connection merely means, of course, built for some years; a house that was, let us say, standing before the Great War. For one reason or another—perhaps inevitable deterioration, wear and tear of age and the elements, perhaps because of faulty initial construction—your house or mine is no longer as comfortable as it used to be. It is hot in hot weather, cold in cold weather, drafty, and expensive to heat. Comforting then to discover that there are a number of practical remedies, that the modern advance in building materials offers all sorts of possibilities.

In a preceding article ('Insulating the New House', March issue of Garden & Home Builder) the various types of insulating material—wall boards, quiltings, wools, powders, etc.—were quite completely described and discussed in their application to the dwelling in the process of construction. There is no need to repeat these details since the interested reader can readily turn back to them. The thing that now concerns us is in what ways insulation is practicable for the house already built.

Fortunately, there are several vital spots in an uninsulated house that can be advantageously protected; and if one feels he cannot afford more than one job at a time, it is undoubtedly true that even a little insulation is better than none.

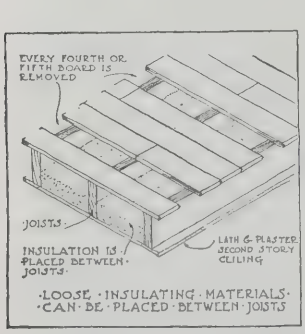
Whatever the type of material selected for your particular job from the wide range of availables which to-day's homeowner is lucky enough to have at his command, the underlying principle of its usefulness is the same. For instance, it is generally understood that the effectiveness of an icebox depends largely upon proper insulation—in other words, the materials used in its construction are such that they do not readily transfer hea from the outside to the inside of the box—they are non-conductors. We are al familiar, too, with the use of insulatin materials on furnace pipes to pre vent loss of heat. Heat, unles stopped, naturally flows from substance of high temperatur to one of lower. To insulate house, then, implies the use o materials that are good non conductors, that act as a buffe or blanket between outside con ditions and in.

Cross-section showing critical points (i.e. attic and roof, porch ceiling, floor over unexcavated area) where it is perfectly practicable to insulate, without undue labor or expense, the house that is already built

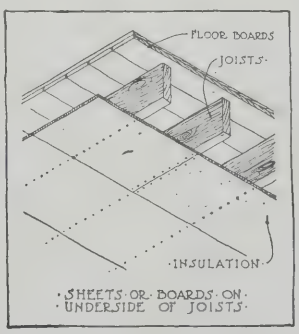
Heat losses from buildings oc cur in several ways. A certai quantity passes through the glas of windows and doors and throug the wood panels of exterior door Such losses can be reduced throug the use of storm sash and door Heat loss is usually high aroun the edges of window sash and ou side doors. This situation can b corrected by the use of weathe stripping. Air infiltrations ma also occur around window an door frames as a result of poo construction. In a house alread built, the only remedy is to caulk suc joints as can be reached.

The roof and attic space, floors ov open porches and unexcavated area and basement walls are the critical poin that readily lend themselves to protectio against costly heat losses. All thes with the possible exception of floors ov open porches, can be insulated at pract cally the same cost as if done durin building.

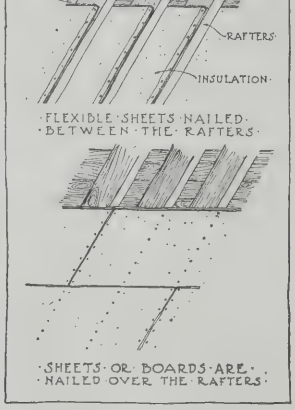
Attic spaces, fortunately, are often le unfinished. This (*continued on page 20*


EVERY FOURTH OR FIFTH BOARD IS REMOVED
JOISTS
INSULATION IS PLACED BETWEEN JOISTS
LATH & PLASTER SECOND STORY CEILING
LOOSE INSULATING MATERIALS CAN BE PLACED BETWEEN JOISTS

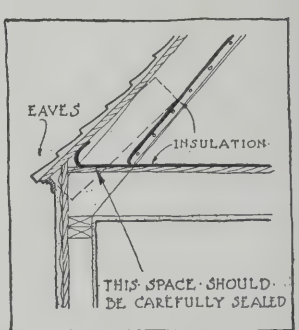
Showing a very simple method of insulating attic floor with loose or 'fill' materials



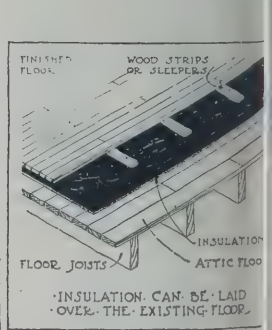
Insulating the underside of floor over an unexcavated area is one of the ways of increasing comfort



Two usual methods of applying insulating sheet or board to roof rafters (see text description, page 204)



It is important to secure tight joints to prevent leakage at the angles between ceiling and roof



When a finished attic floor wanted insulation may b done as diagramed here an described in text page 204

Photograph by Tebbs & Knell

A STUDY IN THE VALUE OF CONTRAST

Stone, wood, green growing things—each gaining value through contrast—the well-designed gate offset, made more arresting by its rough, massive enframement; and, beyond, the diversified leafage of trees and garden flowers accented because one looks through something static in search of their beauty which moves and draws the eye. At Mr. Earl Worsham's home, Knoxville, Tennessee; Barber & McMurry, Architects

The walls of the living room in the Franklin house are of rough stucco tinted brown that sets off nicely the gay colors of the chintz hangings and the slip covers of the chairs

A glimpse through the living room into the hall. The papered walls have huge sprays of Hollyhocks and Larkspurs at intervals, giving a charmingly cheerful air to the hallway

COMPLETELY COLONIAL IN CHARACTER

The residence of Philip A. S. Franklin, Jr. Esq.

At Locust Valley, L. I.

BRADLEY DELEHANTY, *Architect*

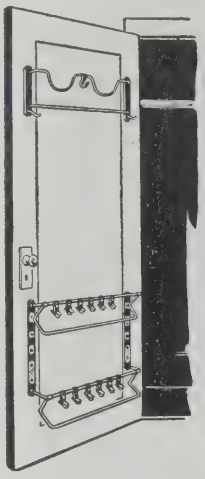
The study is noticeable for the dignity and simplicity of its furnishings. Giving off the living room the walls of the study are of the same color and finish as the former

The owner's bedroom is furnished in the Colonial style, consistent with the treatment of the house both inside and out, and is a colorful whole with its wallpaper, rugs, and upholstery

In the heart of the Long Island hunting country, at Locust Valley, it is not surprising to find the walls of the dining room adorned with a gay hunting paper, truly pictorial in character

UP-TO-DATE DEVICES

Make Every Door an Extra Closet

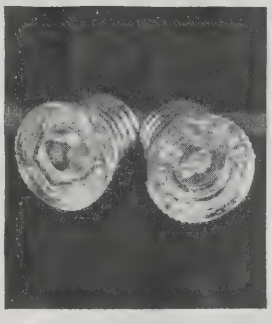


Hardly ever is a house so large and spacious that an extra closet is not desired. And nowadays when ever so many of us live in two room apartments, any appliance which increases closet space is a very good thing. This rack may be attached in ten minutes to any door, is made to fit all sizes, and comes in metal, nickeled finish. As the illustration shows there is room for hats and clothing, and racks for shoes. It's the sort of thing that helps keep the apartment tidy and clothing in good condition. It takes up very little room, and does not interfere with the regular contents of the closet. ($3.95)

Laundry Bag Holder

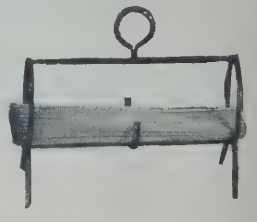
Here is a modern appliance for housing laundry. It is a laundry bag holder—a real novelty. The frame opens like a book, and the bag is quickly and easily taken out. It has a hinged cover, and rolls on rubber tired casters, and is easily moved. It will hold a good-sized wash, yet it is a compact piece and takes up very little room—really much less than the ordinary hamper. Two bags come with the frame, one for use while the second goes to the laundry. The frame may be had in various colors to match the modern bathroom. (In two sizes $7.25 and $8.75; 50 cents extra for white.)

Glass Fuse Plug



When the lights go off suddenly and you go to the fuse box, it is sometimes difficult to determine whether or not a fuse is blown, and this causes an annoying and sometimes a dangerous search in the cut-outs. This glass fuse plug makes it very easy to tell what the condition is. The top is all glass, specially composed and annealed, and the difference between the blown fuse (left) and the perfect (at right) is very clear. Also the glass is a perfect insulator so that there is no more danger in replacing the fuse than there is in replacing an electric light bulb. (5 cents)

Match Rack

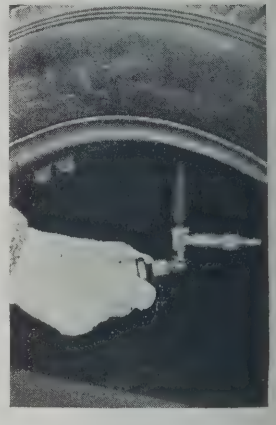


Close on the heels of the introduction of the long matches for the fireplace comes this attractive new holder for them. Of hand-forged wrought iron, the holder is a reproduction of an old-fashioned pipe rack such as was used for holding church-warden clay pipes. The giant fireside matches are twelve inches long, and the holder itself measures ten inches. It hangs up next to the fireplace opening, and is an unusually new and good looking, as well as a very useful, fireplace accessory to use in combination with a wrought iron fire set. Complete with 160 matches for $9.

Card Table Serving Tray

A metal tray that exactly fits the card table is something that the hostess will welcome with open arms! Refreshments served on the table itself are apt to leave rings or spots, no matter how carefully the linen set is placed. With this tray, the places may be perfectly laid in the pantry, and brought in and served without more ado. It is attractively decorated with little flower motifs, and comes in jade green, French blue, gray, Chinese red, lavender, black, yellow, and pink. ($3.50)

Air Gauge for Tires



One of the new automobile accessories about which we are enthusiastic is this gauge for air in tires. By blowing a whistle it tells you when any tire on your car has had enough air. It automatically records the pressure and cuts itself off when a predetermined amount of air pressure has been reached. It works simply: you turn the dial to the pressure desired, then apply the gauge to the tube valve stem, place the air line on the gauge and press down. The motorist who has to do his own work will find it useful. ($1.50)

We are very glad to offer a shopping service to the readers of GARDEN & HOME BUILDER. Send your check for the article you wish to Shirley Paine (payable to her), care Doubleday

FOR THE HOMEOWNER

A Novel Necessity for Motorists

The driver and his companion on the front seat of the car are out of luck as far as disposing of cigarette ashes are concerned. They can put them on the floor, but that is messy; and if they flick them out of the window the ashes are apt to come sailing back on the breeze. Here is an interesting little ashtray which has been combined with the gear shift knob. By the use of an adapter the knob-urn will fit any gear shift handle. These ash trays come in a variety of colors to harmonize with the car. State name of car, model, and color wanted. ($1.75)

Something New in Aprons

A new trick in apron making is this illustrated at the right, which has no strings, yet which can be worn without any danger of slipping. The waist band has a spring clip run through it, that is circular and immediately adjusts itself to the waist. There are no strings to tie, and every apron fits its wearer comfortably. Also you simply twist the supple steel spring and the apron is reversible. Cleanse with a damp cloth or a brush. It comes in gay rubberized fabric, and also has a bib to protect fine gowns. There are three sizes—small, medium, and large. ($1)

A 'Blender' for the Cook

A device that will quickly and easily blend flour and shortening for piecrust, biscuits, etc! It is such a great improvement over the old slow methods of using a knife or the fingers, that it is being used and recommended by leading cooking experts everywhere. It is valuable in taking lumps from gravy, squeezing spinach dry, mashing potatoes, making waffles and pancakes—and ever so many other culinary operations too numerous to mention. Use with a quick chopping and mixing motion until the mixture is at the proper consistency. It is light and of a very convenient size. (35 cents)

Golf Scorer

The golfer with a bad memory and a poor head for figures will be very glad indeed to see this new counter. It records the number of strokes for each individual hole, and that score remains in place until the game is finished. Also it totals on the center dial the game as it progresses. Thus when the match is over the player has his score hole by hole and also his final total. Every day the manufacturers are bringing out novel tricks for the golf enthusiast, and this ingenious device is one of the most practicable. (In various sizes, $10 up)

Frightens Prowlers

Imagine the mental state of a midnight marauder when he hears the clang of this bell as he picks your lock! The bell on this alarm rings instantly when any prowler tries to enter your home. It can be adjusted in a minute and thrown off center by a slight turn of the door knob, causing the alarm to ring. There are no keys, batteries, or electrical equipment of any kind required, and such a piece of burglar-proof hardware makes for a feeling of security in the heart of even the most timid. It can be shut off quite easily during the daytime. ($3.50)

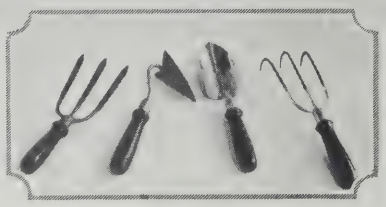
The Serviceable 'One Step'

Why lug a heavy stepladder, risk life and limb on tipping boxes, or mar the finish on pet chairs? It isn't necessary now that this new 'One Step' has come to help the housewife. It will reach almost all the shelves in the house and is light and easy to carry about. It comes in several colors of lacquer: red, blue, jade, yellow, black and white. The Senior size has a rubber tread, and comes in any color at $9.50. The Junior comes in plain wood or any color at $4.50 and $7.50 respectively.

Doran & Company, Inc., 244 Madison Ave., New York, and she will do the rest. If you order more than one article at a time, please send separate checks. This service is entirely without charge.

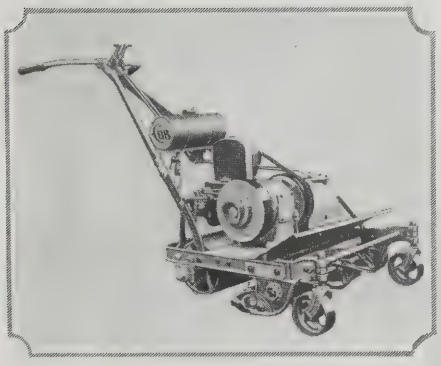
The Estate Power Lawn Mower is especially easy on the sod. Easily turned and close-up cutting made possible by a bevel gear differential. (Jacobson Mfg. Co.)

The Du-All tractor can be equipped with a cutter bar for tall weeds and grass that gets beyond the average lawn mower (Shaw Mfg. Co.)

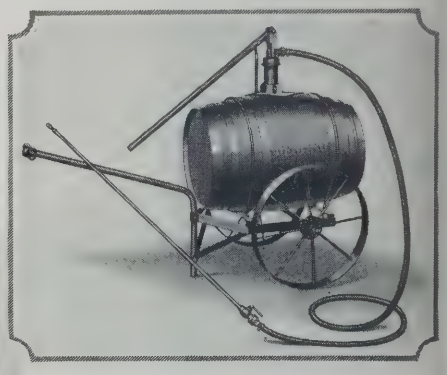


True Temper set of garden hand tools applying the approved signs of larger models. (American Fork & Hoe Co.)

GARDEN APPLIANCES THAT EASE UPKEEP

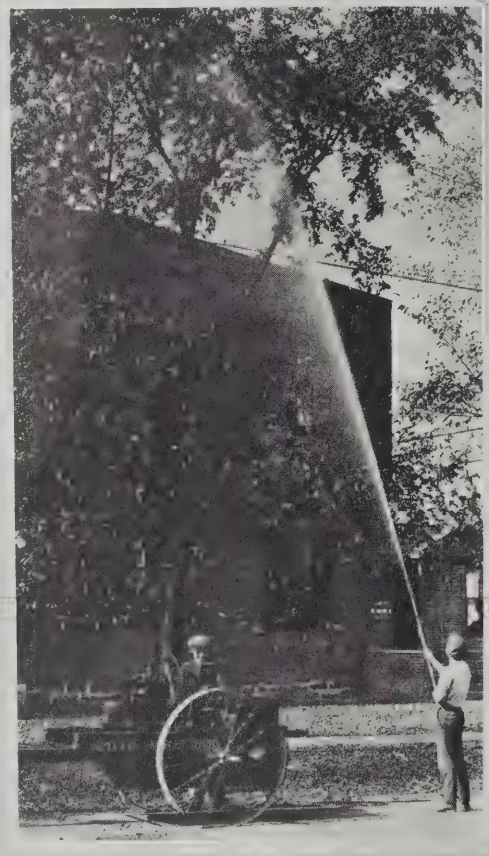


Coldwell's 'Cub' proclaims progressive tendencies. The latest development in gasoline driven combination lawn mowers and rollers—walking type. (Coldwell Co.)

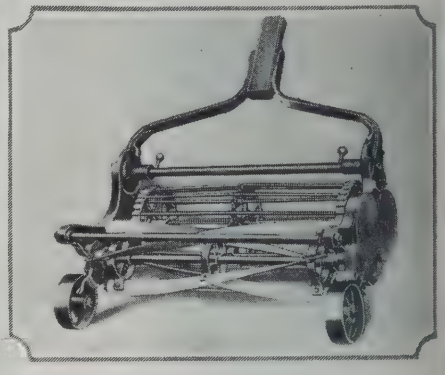


By loosening a few bolts this wheel sprayer is quickly converted into a practical wheelbarrow, a separate attachment replacing the barrel on the frame. (Deming Co.)

Comes the well-known Bolens Power Hoe, already useful as a garden tractor and power lawn mower, with a special dusting attachment for those who prefer dry to liquid sprays. (Gilson Mfg. Co.)



The Special Union Leader combined with the Royal Spray Gun reaches far and discharges in great volume. Fine for street trees and orchards. (Field Force Pumps)



Improved construction enables operator to cut close to trees. The absence of side wheels causes this mower to cut evenly when on uneven ground (Blair Mfg. Co.)

Lawn sweepers are replacing grass rakes. The Brume Rake is the evolution of the cane type, the teeth being of springy metal. (American Fork & Hoe Co.)

Bucket spray pump combines great power with light weight. Adapted for use about the garden, also for whitewashing (Barnes Mfg. Co.)

Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

Successful Lily-of-the-Valley Forcing

F THIRTY years ago the few really successful forcers of Lily-of-the-valley hose who got good foliage with the om—had been told that it would be ssible to force Lily-of-the-valley in a re window, bringing it into bloom in ee weeks' time, they would have said complimentary things about the sanity the informant. There is a seed store in iladelphia that forces Lily-of-the-valley ts window. A five-inch pot is filled with s and soil, the pips about an inch rt. The pot is put downstairs on the ter for a few days until they start; n the pot is brought up and put in the dow. They have many customers who ne in regularly once in three weeks or for a new supply of pips. The secret? ese are cold storage pips. Those sold the seed store up until some time in ruary have been in storage for a year. at is why it is so easy to get foliage on m. If freshly imported pips are forced arly winter the forcer gets few small es, or none at all.—P. T. B., *Riverton, J.*

Using Lacquer about the Home

THE linoleum in your bathroom or kitchen is wearing and you do not feel to buy new, try giving it a coat of nel. A rich dark red makes a good kground. After this coat is dry, take nge, dip it into white enamel and ple or spot the red background. If desire something elaborate use several lrs: green, orange, blue and a cardinal After this is thoroughly dry give it at (two would be better) of linoleum ish and you will have an excellent r.

here are many pretty oilcloths on market to-day that can be utilized in us ways. Shades for the kitchen, kfast room or sun-parlor can be cut edesired width and fastened on the e rollers, with the ends hemmed or ped. Table runners can be made to h the curtains.

Lacquer is quite the vogue. Dark furni- that is to be made over into the light stel shades, should have an undercoat at enamel the same shade as the uer. Give it two coats of both under- ng and lacquer. If you are not artist gh to use stencils, cut out designs wallpaper and glue on where desired, varnish or wax the design.

Perhaps in the attic you have an old stool. Remove the spiral screw, and the top can be securely fastened to the stool by means of long screws underneath. This lacquered in one of the bright colors makes an excellent table or stand.

If you have any pieces of old furniture in your home made of the solid woods, walnut, oak, rosewood, do not paint or varnish. Use varnish remover and remove all the varnish, and rub with boiled linseed oil; then shellac and wax and rub to a high polish.—Arda Lee Davis, *Kansas City, Mo.*

The exceptionally beautiful foliage of the Hercules Club makes it a valuable shrub for mass planting

Typical flower cluster of the Hercules Club—more than one foot in diameter. (See descriptive letter at right)

Hercules Club—An Attractive Shrub for Mass Planting

A NATIVE shrub with foliage of exceptional beauty, the Hercules Club, because of its habit of growth, is especially suited for forming the center of a mass planting.

The Hercules Club always invariably grows straight up, each season's new wood being formed from the terminal bud of the year before. Thus a trunk ten to twenty feet high will have only a large cluster of immense leaves at the end, the entire stem being bare except for long and picturesque thorns. The legend runs that as the trunk was without side branches, Hercules found that it made a most convenient club—hence the name!

At the top of the cluster of leaves an immense creamy white flower head—in cultivated specimens a foot or more across and about 18 inches long—appears in August and lasts for weeks, being followed by purple fruits, attractive to the birds. But the greatest beauty of the shrub is its leaves, which are nearly two feet across. Ovate and highly compound, they also bear spines.

The growth is rapid. A rootlet, planted in the spring, was three feet high in the fall. A terminal growth of three to four feet in established plants is not unusual.

The Hercules Club, botanically Aralia spinosa and also known as Angelica Tree, combines especially well with Sumac—another shrub often neglected because it grows wild. Like Sumac, it apparently resists all insect pests. Japanese beetles appear to give it a wide berth.—Samuel F. Haxton, *Philadelphia, Pa.*

Using Gold Leaf Yourself

HOW can I learn to re-finish an old gilt mirror frame? I want to do the work myself and do not want to use gilt paint. Is it possible for the amateur to apply gold leaf? I want to secure an antique finish.—Mrs. J. N. T.

It is possible for the amateur to apply gold leaf, but difficult. Clean your mirror frame and let it dry. Then apply a coat of Japanese glue size, allowing it to become almost dry so that when you touch it your finger will stick a little bit to it. Then use the metal leaf, in place of gold leaf which is very expensive. This is equally attractive and much cheaper. To apply this you have to open the booklet, holding your hand on the tissue paper so

that the metal leaf will not touch your fingers; then apply it to the surface of the mirror frame, and the glue size will hold it. After it has laid on the size for a moment brush it with a soft brush, and when it seems to have dried, brush off the loose edges of the metal leaf with the same implement. After it is smooth and hard you can antique it by painting it first with white waterproof varnish and then applying raw umber oil paint rubbed on with a cloth.—A. Louise Fillebrown.

Lilies in Central New York

THE genus Lilium is reputed to be a fastidious one and any account of what species succeed in a particular region with its special climatic and soil conditions will always be of interest. Climatic conditions in this region (Central New York) are, of course, not coastal, but inland, affected somewhat by the proximity of the Great and some smaller lakes. My own soil is clayey, the kind that bakes and cracks in summer, but otherwise rich, somewhat calcareous, and a good Rose soil. Accordingly at first I supposed it unsuited to Lilies, but, thinking that some such as L. candidum might stand it, tried a few and found they did well. I then decided to try out practically all kinds that I could afford. The casualties were numerous, but they were balanced by a few distinct successes.

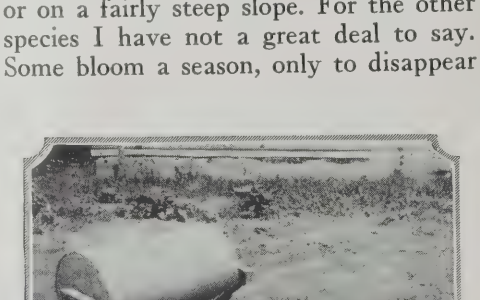
My trial ground was a long narrow bed running parallel with a walk. The ground slopes with it in one direction and from it in another, so that it is evidently well drained—a very good point. There are other plants in it; two or three clumps of perennial Phlox, a few Japanese Anemones, Pansies, other bulbs, such as Crocus, Narcissus, Tulips. This is also important, as I am convinced that many Lilies thrive better in company with other plants—for that matter, other Lilies.

So many things were already in the ground that I did not loosen up the soil deeply, as would have been desirable, and many of the bulbs were not buried as many inches below the surface as instructions say they should be. They were simply put in a hole, generally with a little sand under them, without other special soil treatment. L. candidum does fairly well, as generally in this section. I have also its variety speciosum, but it is hardly distinct enough to warrant paying an extra price for it. The supposed hybrid of candidum, L. testaceum, is also a success. One bulb of it, placed somewhat inadvertently among some thickly planted Darwin Tulips and expected to succumb, sends up a strong stalk nearly six feet high with a beautiful head of bloom, decidedly a better plant than one set more by itself. Perhaps there is a suggestion in this. The other supposed parent of testaceum, L. chalcedonicum, also maintains itself, but the stalks produce only a single flower each and the lower leaves fall a prey to disease before the blooms open, so that I do not count it a success. Generally speaking, I do not have great luck with the European species. I have tried the forms of L. martagon, but not yet with satisfactory results. On the other hand the Asiatic L. hansoni has established itself nicely and, strangely enough, its hybrids with L. martagon also do well. I have a flowering bulb of one of the Mrs. Backhouse hybrids and one of the so-called Marhan, an earlier cross. These are, however, not nearly so attractive as L. hansoni itself. L. regale appears to succeed almost everywhere and my case is no exception. Only some small seedling bulbs raised in a greenhouse did not flourish and should apparently have been kept longer under careful cultivation.

Too small bulbs of any Lilies I do not find an advantage under such treatment as I give them, but I do not think extremely large ones are an advantage either. L. sargentiae also succeeds, but it is difficult to keep the slugs from ruining it as the young shoot emerges from the ground. For sheer beauty it is not equal to L. regale. L. henryi is very dependable. Its stems are a good six feet long with fifteen to twenty flowers each. Its persistently drooping habit does not lend itself to the ordinary flower bed. It ought to hang down or over from an elevation or on a fairly steep slope. For the other species I have not a great deal to say. Some bloom a season, only to disappear afterwards, some do not bloom at all. L. tigrinum is not bad, but I have seen it much better. I do not think it likes lime. I expected nothing from our Pacific coast species and got somewhat more than I expected. A number bloomed one season some maintain themselves longer, but with short stems and a sing flower.

In the case of the Japanese L. speci sum the dark varieties do better. Tl white ones decline with me after som times blossoming the first year. It is pity, as the flowers are beautiful. Tl variety called magnificum is by all od the best, so far as my experience goes. had for several years a specimen of it th reached five feet or more in height wi twelve to fifteen large blooms each yea until something finally happened to Even before blooming the stately sta with its healthy, glossy green leaves w a garden ornament.

To sum up, the species one can u with best prospect of success in th region, unless the soil is of a differe type from mine, are L. candidum, testaceum, L. regale, L. sargentiae, hansoni (and its hybrids), L. henr L. speciosum var. magnificum. As the are some of the most beautiful Lil in existence, the misfortune of not havi others is not so great.—A. L. Roy A drews, *Ithaca, N. Y.*



The finished garden or lawn roller, construction details of which are given in the letter at right

Making a Garden Roller

THE picture above shows an excell type of garden or lawn roller wh has several desirable features. It is eas used even though its weight is 190 poun The bearings are of wood and the wood pieces are attached with bolts, thus p mitting easy removal of the worn beari and their replacement.

To make it you will need the follow materials:

One pipe 20 inches long, $\frac{3}{4}$ inch diameter, for handle.

One $1\frac{1}{2}$-inch-square hardwood han 40 inches long.

Two $\frac{1}{4} \times 1\frac{1}{4}$ inch strap irons, 44 inc long.

Seven $2\frac{1}{2}$ inch bolts, $\frac{1}{4}$ inch in diame

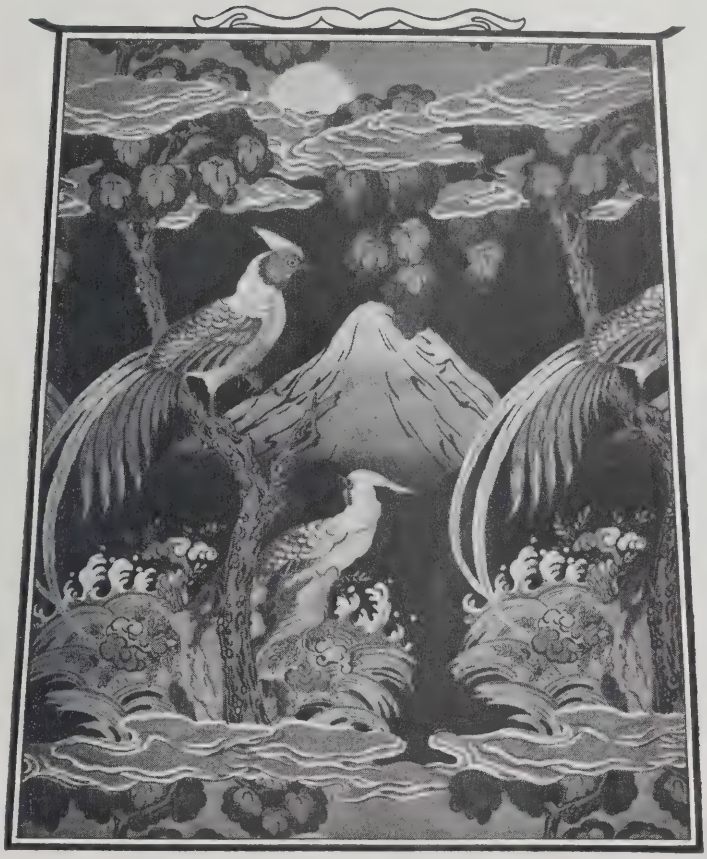
Two pieces of wood 2 by 3 inches inches long, for bearings.

One sheet iron piece 40 inches long inches wide for form. One $\frac{3}{4}$ inch pip inches long for shaft.

Solder the ends of the sheet iron gether and carefully form into a cylin Set this on a board on end with the s through a centered hole, and center upper end for the cement pouring. the cement 1 part to 3 parts of gravel, mix with just enough water that it be 'puddled' into a compact mass.

Then assemble the parts as sh using the bolts to hold the handle, ha shaft and handle arms with the woo bearing pieces in place. This can used after it has cured for three d but it will not be thoroughly for a week.—Dale R. Van Horn, *Lin Nebraska.*

This Printed Linen takes its design from an old Korean Painting



This printed linen comes on green, brown, salmon, black, sand or scarlet ground. The panel shown is only one-half the width of the material

N exquisite painted panel done in Korea in the XVIth Century recently been brought to this ıtry and is now in the Metro-tan Museum. This painting was ımacher's inspiration for the ited linen shown here.

• • •

ea was a land of a high and ent culture! The seeds of its civilization came out of China. from its plundered art treas- sprang the great art of Japan!

While most of Europe was still vilized, Korea—under the in- ing influence of Buddhism— duced the finest works of old ddhistic art.

hen Confucianism became the t religion and Korean culture ne closely identified with the ese Ming Dynasty. At the end of the XVIth Century Japan, the envious, invaded Korea. The country was desolated, its vitality crushed.

Great works and artists were carried off to enrich the culture of Japan. The treasures that were Korea's were scattered over the world.

• • •

Taken from a painting done in the last days of Korea's glory, the design of the printed linen illustrated is closely allied to both Chinese and Japanese art.

It has a fine simplicity of composition and theme—a cock and a hen in a tree, distant mountain peaks, and the full moon rising from heavily banked clouds.

The beauty of this fabric, its rich colors and charming pattern make it a delightful material for a screen —or for draperies where the entire design may be seen at a glance.

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A New Booklet—"Fabrics, the Key to Successful Decoration" —This interesting booklet has just been completed. Beautifully illustrated, it gives briefly the history of fabrics and discusses their utmost importance in successful interior decoration.

This will be sent to you upon request without charge. Write to F. Schumacher & Co., Dept. D-4, 60 West 40th Street, New York. Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Grand Rapids, Los Angeles, San Francisco and Detroit.

The beauty and richness of its design make this a delightful covering for a screen

Interesting and unusual, this printed linen shows to advantage as window hangings

F. SCHUMACHER & COMPANY

YOUR GARDEN IN APRIL

T. A. WESTON

In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind.; Quincy, Ill.; Denver, Colo.

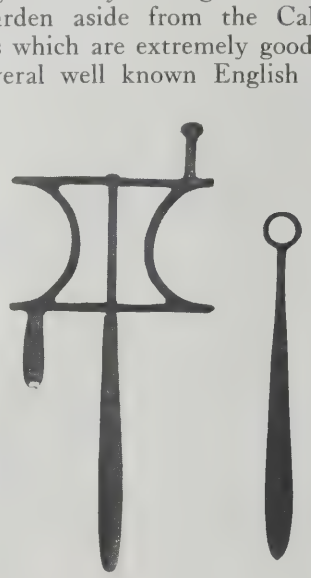
APRIL will be just around the corner by the time these notes are read. I almost dread to contemplate what the spring will disclose, for nothing is more trying to plants than cold, drying winds, such as the winter so frequently brought. Although we had several rains, the amount of moisture was below what is usual when the average amount of snow falls and despite the coverings on the borders, it was only too evident that many plants were suffering severely from the dry conditions, especially when the temperature was low and the wind high.

The Opening Operations

We will assume April is here, bright and sunny. We will remove the protective coverings from the borders, rockeries, and we will peer into the frames. Aye! scan the contents with an anxious eye, especially the tiny seedlings which despite their small size, may represent the growth of a whole year. The larger subjects bedded out in the frames are not likely to give us cause for worry or concern; if they are fairly hardy, the sash protection will have brought them through in fine shape, ready to be planted out as soon as the ground is in the right condition. Pansies, Violas, Digitalis, Canterbury-bells, Geums, etc., which hold their foliage and which benefit greatly by frame protection should go into their flowering positions just as soon as they show active growth, and a few warm days after the end of March will be sufficient to bring about a wonderful change among plants in frames; usually it is quite safe to start planting out by the middle of the month. It is infinitely better to set out hardy plants some time in April than to wait until May, for in the latter month hot days are not improbable.

Order Your Perennials

Allowing you have not carried over surplus plants and you desire to make a border, lose no time in ordering the stock. The hardy plant specialists will soon be up to their ears with shipping, and whether they handle pot grown or field grown plants it is a foregone conclusion that the early orders receive the best attention. The men who bring the plants to the packing shed, as a matter of course, pick out the stronger looking examples all the time so that late orders are apt to be made up with the smaller plants. It goes without saying that even in a nursery, plants do not all grow of an even size. Therefore I repeat, order early and endeavor to have everything in readiness when the plants arrive. Pyrethrums especially should be planted early, also Delphiniums, Trollius, Aquilegias, Mertensia virginica, Irises and Peonies; the latter two subjects are quite equal to flowering if planted early. Nothing is more beautiful than the Virginian Bluebell (Mertensia) but it is an early starter as are the other subjects mentioned. The Aquilegias to-day are a glorious asset to any garden aside from the California hybrids which are extremely good, there are several well known English strains



For the garden line this metal reel and pin is most handy and practical. It is one of those old standbys that the skilled worker uses but which the beginner passes up in his ignorance. Particularly in the vegetable garden precise rows are a cultural help

and the newer Scottish Imperial strain which produces some gigantic flowers. The new double pink Pyrethrum Florence Shadley gives rise to the hope that we are at last starting to raise some really good domestic Pyrethrums; while as for Delphiniums, several firms now offer some splendid named kinds that necessarily have a greater appeal than mixed seedlings. There are many other comparatively new introductions meriting notice, among them Aster Barr's Pink, easily the best of the tall novae-angliae type, the Gypsophilas Bristol Fairy and Ehrlei, both a great improvement upon the old double; Papaver orientale Olympia which is practically double, and Viola Jersey Jewel.

Plant Shrubs, Without Delay

The planting of shrubs, trees, and evergreens should be done at the earliest possible moment, the growth of these starts early and whether plants have been in storage during the winter or are lifted straight from the field, delay in planting causes a severe check. Incidentally, now is the time to prune late flowering shrubs of which the well known Hydrangea paniculata grandiflora is an example. Early blooming shrubs such as the Mockorange (Philadelphus) should not be pruned assuming they need it, until after they flower. It should be understood that shrubs as a class, do not require pruning regularly like fruits; it is done more or less to keep them in bounds and to encourage new growth by the elimination of the old. Many shrubs are quite equal to carrying on for years without use of the knife but some of the rampant growers would develop too great a size for the average garden. On the other hand, some subjects like the Flowering Crab, Plum and Cherries do not show their real beauty until they are of considerable size.

Prune the Roses at Once

Speaking of pruning, early April is the time to tackle the Roses. Assuming the top covering has been removed and the soil that was piled around them is leveled, one can readily see how the bushes have fared. The Ramblers that frozen badly will show it by the dead wood and the flowering will be measured by what is sound. American Pillar, for example, is equal to withstanding near zero without losing more than a few inches of ground. Emily Gray on the other hand, is much more tender and apt to die back considerably. All that need be done with Ramblers therefore, is to cut away the dead wood and tie in the straggling growths that the winter blasts have torn loose. In my own garden rude old Boreas during January, not only yanked down many growths but even tore some of the poles down also. I wish Rambler Roses were more friendly subjects; they seem to delight in hooking into one's clothes and hands, and the worst of it is that gloves render one's hands almost useless when it comes to tying.

The Bush Roses are an easier proposition; with a pair of good secateurs, one can quickly go over a large number. A simple guide to (*continued on page 17*

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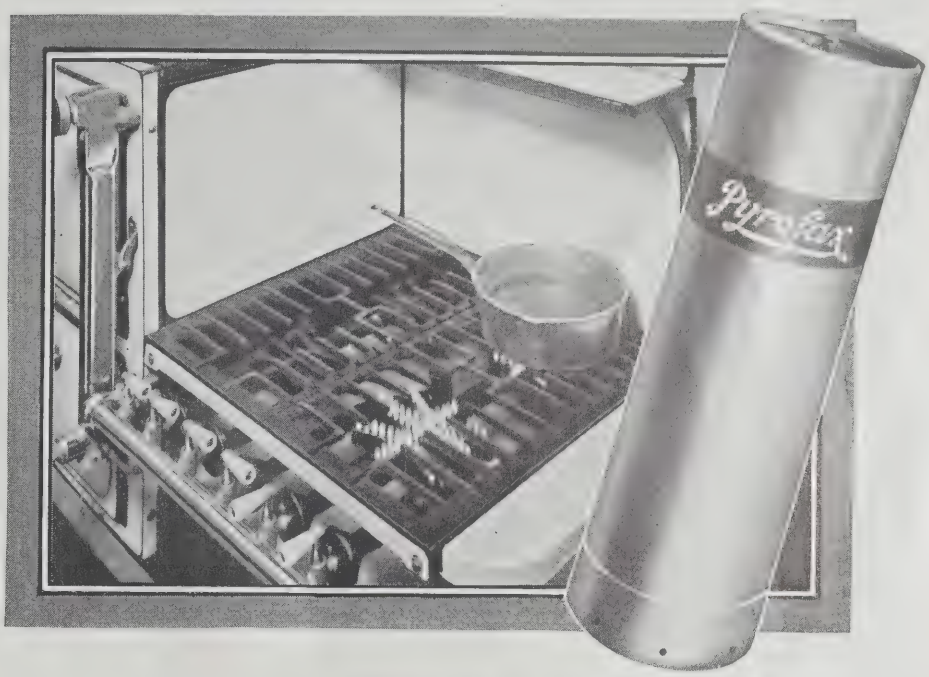

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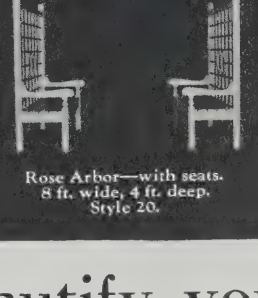
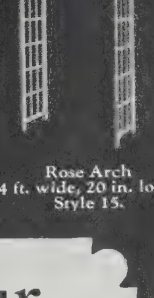
4 ft. wide, 8 ft. high.
Style 14.



Rose Arbor—with seats.
8 ft. wide, 4 ft. deep.
Style 20.



Rose Arch
4 ft. wide, 20 in. long.
Style 15.

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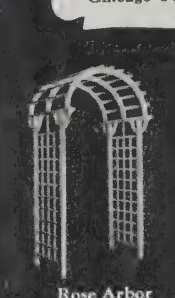
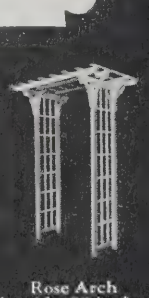
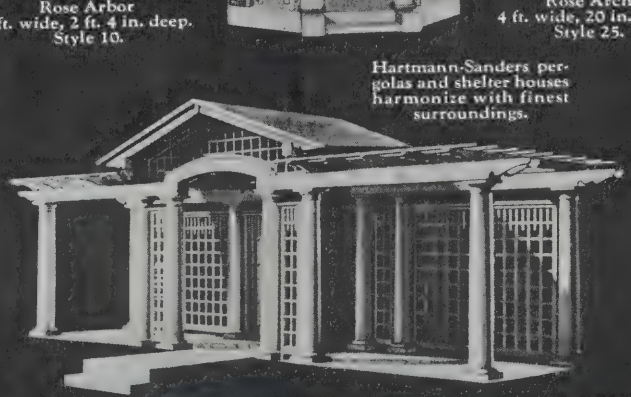


Rose Arbor
4 ft. wide, 2 ft. 4 in. deep.
Style 10.



Rose Arch
4 ft. wide, 20 in. long.
Style 25.

Hartmann-Sanders pergolas and shelter houses harmonize with finest surroundings.



Your Garden in April

Continued from page 176

pruning is to watch the pith; if it is discolored it is a sure sign that frost has injured the wood and which it may not die back and may push forth growths, these are never vigorous. Not infrequently it is necessary to cut right to the ground line before sound wood is found, but even so, it is better to do this and so induce the basal eyes to push forth; they may flower a few days later but if there is any vitality in the roots, the new growths will be strong and in return, these growths will further strengthen the roots; one is a complement to the other. On the side, I may mention that if a weakling bush sends up a basal sucker, it is not bad policy to allow it to grow for a while, it will stimulate the roots and the after growth will benefit.

Make Ready for Seed Sowing

Assuming all the seeds required for the season's operations are at hand, it is a good plan to enter their names in a small book in alphabetical order, allowing spaces for date of sowing and other information that may be of interest later. If one does not favor the use of large labels that will take the entire name of a subject, numbers may be given to each variety of seed; when sowing, one can then use the number only on the label, all other details being recorded in the book. If some seeds are to be sown in boxes or pots, and all choice seeds ought to be so handled, prepare a compost of nice loamy soil, leaf mold and sand in readiness.

All perennial seeds, including Alpines, may be sown, if frame protection is available, any time in April. Those to be sown in pots and boxes can be dealt with in the cellar, even at night, and the pots, etc., placed in the frame afterwards. Some subjects that are benefited by a little warmth may be left in the cellar but once germination starts, a right situation is essential or they must be transferred to a frame and mat protection provided at night if the seedlings are at all tender. Tomato seeds must have artificial warmth at this date to start them; failing this, wait until May to buy strong plants at planting out time. To secure a full crop of Tomatoes, early sowing is essential in these parts, and for this reason it is more profitable to buy March raised pot grown plants than to sow seed in a coldframe or outdoors in May. Of course, if one has the materials for making a hotbed or can otherwise heat a frame, wonders can be accomplished but such facilities are not for those who, like myself, have to be absent from home each day unless they can depend upon someone to attend to ventilation and so forth.

The general run of seeds, perennials and annuals, can be sown in frame beds, the seeds being distributed thinly in rows some 4 inches apart; after hardening off, these can be transplanted outdoors some time in May. Some vegetable seeds are better for being sown in a frame during April, including Celery and Cauliflower. The early start means a considerable gain, for by the time one can sow such things in the open, the frame sown batch will be almost large enough to prick off. The Celery and Cauliflower greatly appreciate being transplanted a few inches apart into a rich soil when small and later they will lift with nice roots and go ahead rapidly when shifted into perm quarters. And permanent quarte everything we grow means tha tween now and the end of May, bit of ground vacant should be du prepared for planting.

Springtime is Digging Time

Very few of us are able to g vegetable plot dug over in the fal assuming the manure was spread a while the ground was frozen, i now be in good shape for digging real gardener gets the digging fe this time; he is out early in the ing, even if it is frosty; time ma permit digging more than a few each day but every little helps. A me add, digging is a wonderful ex if not overdone at the start no c the back will result and it will h digest the breakfast. If everyone short spell of digging in the early ing, no radio exercises would be sary and the Monday blues wo banished!

The ground dug, Peas may be as soon as conditions permit, Onion sets and seeds. These vege are better for being sown as ea possible and an April sowing of a Pea will result in June picking what a delight is the first feast o Peas after months of canned sam

Work Among the Borders

And the new borders, rose b fact every vacant space shou worked into shape as early as po it is bad policy to delay such d for in May there is so much pl to be done that if one has to s prepare the ground, some thing be planted late and suffer accor Dig between the Roses after ma immediately the pruning is co also manure and lightly dig ov established borders as soon as the make themselves visible. Mich Daisies are best divided as this proceeds and as most of these g rapidly do not plant back more th or three shoots of each clump. disturb Pyrethrums at this time flower crop will be reduced mat Incidentally, if you have lots of Pyrethrum clumps and would lik late flowers, cut back some of the almost to the ground as soon as th show; the roots will send up a ne and bloom after all the others a Many perennials that have becom big may be divided this mont earlier the better, including D ums, Artemesia lactiflora, Hemerocallis, and other strong ers. Do not, however, disturb lished clumps, the general run pines, and rock plants until aft have flowered; Violas are an exc for these will divide up readi flower well.

Miscellaneous Jobs

The Privet hedge will proba calling for the shears if it was not late last fall; get to it before it gr of hand. And do not forget to o the sprayer, for the fruit trees an will soon require attention; al soon as the leaves show the b on the war path. Look over the roots in the cellar; the Dahl probably be sprouting in the and the (*Continued on pa*

In historic old New England he use of enduring materials is a tradition

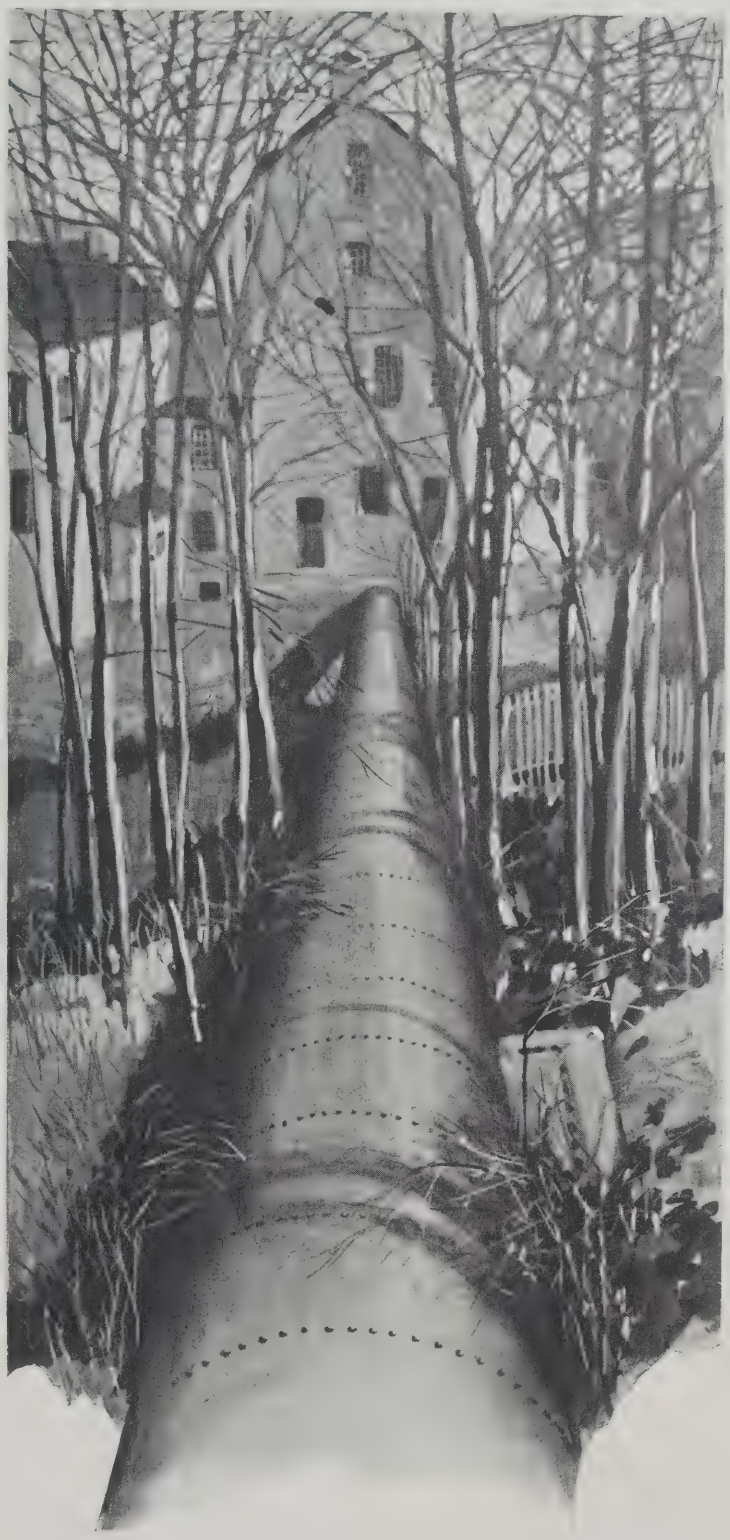
This Old *rought iron* Flume is defied corrosion r half a century~~

N no part of the country is he love of permanence re deeply rooted than in w England. To the New gland mind, change and ay are "the old woe of the rld." The inveterate fond- s for enduring materials be seen in every city or nlet. Fine churches and n halls, dignified man- ns, modest cottages, not a , show the venerable char- r of things that last.

ven mills and factories lt by the pioneers of in- try in New England, share his worthy tradition.

rom such a mill, belong- to the United States Rub- Company, and known ally as "the Old Shop", of the earliest "rubber boot" factories of the stern Hemisphere, our ent illustration is taken.

n old wrought iron flume, t half a century ago, sup- is the old shop with its ct vital necessity—plenti- olumes of water. Resting rly on its stone supports, n to the embrace of stur- rees which were not yet uted when the mill was i, the ancient flume has ome so much a part of



the landscape that generations of children have come to look upon it as belonging to the hill.

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Your Garden in April

Continued from page 178

Cannas, if they have come through sound, should be boxed in earth and given the warmest place possible. Tuberous Begonias, too, ought to be bedded in damp moss or soil and be stationed near the furnace or brought up into the warm dining room, providing the lady will permit it. If she is also a gardener she will permit anything; if she is not, heaven help you!

Some of the Early Spring Delights

Before April has far advanced, if you planted for the purpose, you will be chortling to see the Scillas, Chionodoxas and Daffodils coming into flower. Also Primulas denticulata and rosea will be blooming as these precocious types always show the English Polyanthus how to get down to business; and, let me tell you, P. denticulata with its lavender and white ball-like trusses of flower in the mass, are great and easier to grow than ordinary Primroses for they are so hardy the flowers appear even when frost is around. The Hepaticas too, will be blooming and also the hardy Violets. This time last year I was picking lots of Russian Violets and also the new pink single Rosina; in fac lifted several roots of this from a fran on April 11th and potted them with t result that the New York Florists Clu favored it with an award of merit; sim lar award was given this plant when was shown in England by a friend mine three years ago. It is a beautif rich pink and deliciously scented.

Plant Some Gladiolus

The latter part of the month it safe to plant some Gladiolus. It is goo practice to plant these at three week intervals from the second week in Apr till mid-June; last year I planted son July 1st and gathered many flowers October, and since the weather prophe say 1928 will give us a warm summer late batch of Gladiolus should pro successful. By the way, a host of ne sorts are being offered this season ar among the notable or near notable ho ticulturists who have been honore with a Gladiolus namesake are our goo Editor, Leonard Barron, and my muc less worthy self. I hope Mr. Kunde will not regret his choice of names f even in flowers names count for much.

Your Garden on the Pacific

ELIZABETH URQUHART

There are many spring guests arriving this month, and the gardener is kept busy greeting them all and attending to their comfort and requirements. Among those present are the lovely wild flowers of spring, and these need care and consideration as well as their family connections in the garden.

Gathering Wild Flowers

There are perennials and annuals and bulbs among these wild flowers, and these differences should be known. The native Lilies, Mariposa Tulips, Alliums, Brodaeas, and the Calochortus (Fairies' Lanterns), all grow from bulbs, and care should be taken in picking them not to pull them out of the ground, but to cut or break them off above ground so that the bulb will not be injured.

Annual wild flowers, such as Cream Cups, Tidy-tips, Nemophila (Baby Blue Eyes), Godetias, Clarkias, scatter their own seed, so in picking them always leave plenty of each kind to bear seed for next year. The California Poppy is really a perennial with a long tap root, but will re-seed itself as well. There have been many lovely varieties developed for the garden, ranging from cream color to wallflower red, and the Poppies are now at home everywhere.

Perennial wild flowers such as the Lupines, Larkspur, Indian Paintbrush, and wild Pansies should be carefully picked so as not to disturb the roots which carry the plants on to another year.

As for the wild shrubs, the wild Lilac, Manzanita, Huckleberry, Monkeyflower, always cut the branches instead of breaking them to avoid injuring the plant. California Holly has been protected by law, and there are laws in various localities protecting the Snow plants, wild Azaleas, Yuccas, Desert Lilies, Mayflower etc. So preserve these children of Mother Nature for their own sake and for the sake of oth as well as ourselves.

Planting Dahlias

Dahlias as well as Gladiolus, Tig dias, and Begonias may be planted no Dahlias may be grown from seed well as from tubers and from cuttin taken from the new growth of t tubers, and planted in sand. These l two methods will produce the desi types and colors, but in growing fr seed the plants will vary greatly form and color. If the tubers are out now they will bloom from May September, and if others are planted June they will bloom from August November. If grown along the co they may be planted in full sunlig but in the interior regions they will better in partial shade. Plant ab three feet apart in rich soil with tops near the surface, and plant sta at the same time to prevent later injury to the tuber. Be sure that e tuber has at least one shoot. Plant a horizontal or slanting position w the bud at the upper end and arra the Dahlias according to height color. Soak the beds well after plan and water three times a week af ward, giving liquid manure onc week.

Seedlings and Late Sowing of See

Young plants may be set out no Fuchsias, Geraniums, Heliotropes, mos, Pyrethrums, Asters, Columbi Pansies, Petunias and Delphiniums, a late sowing of seeds may be m such as Cosmos, Candytuft, Marig Calliopsis, Larkspur, Mignonette, tulaca, Zinnias, etc.

Mexican Poppies

This charming plant whose pr name is Hunnemania, may be sown latter part of the month, as as another (*Continued on page*

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FOR FOUR GENERATIONS BUILDERS OF GREENHOUSES

Your Garden on the Pacific Coast

Continued from page 180

Mexican flower Cobaea scandens and the Mexican Morning Glory, all of which require heat for germination. If the weather be unfavorable it is better to wait until May. Plant the Hunnemania where it is to grow as the plant has a long tap root and resents being moved. Keep the pods cut to prolong the bloom and when saving pods for seed, pick them carefully before they get dry and burst.

Chrysanthemum Cuttings

Chrysanthemum cuttings are in order this month and may be made from the young shoots coming up from the roots of last year's plants. Put them in pots or boxes in sandy loam until large enough to set out in the beds.

Cuttings of Succulents

Also make cuttings of Aloes, Cras las, Mesembryanthemum and Cac and set out young Cotyledons sta in the autumn. In making Ca cuttings let the cut surfaces become before being put in sand.

Miscellaneous Reminders

European Iris will be in full bl this month and it is a good tim make new selections for the gar and transplant soon after bloom before new root growth commer Also divide perennial Phlox if crowded and other herbaceous pe nials, such as Callas, Agapanthus, C diums, as well as Water-lilies.

Your Garden in the South

ETHEL HUTSON

Flowers for June

The winds from the Gulf of Mexico are both warm and moist, so the lower part of Texas, Louisiana, Mississippi, Alabama, and Florida have a great wealth of blossoms the greater part of the year, but April is the apex of the blossom-cycle. Some Peaches bloom as early as January, but there are some still in bloom as late as April, and so it is with many plants. On the other hand Shasta Daisies and Cape Jasmine and Magnolia blossoms seem to belong to the end of May and first week of June when they are wanted for graduation exercises, but April sunshine often brings out these blossoms too.

Plumbago, Oleander, Buddleia, Privet, Ligustrum and many other shrubs are waving bright bouquets in the breeze, but the experienced gardener knows that this blossom time will be over, and trees, shrubs, and annuals will be making seeds by June. To keep these spring flowers blooming over a long period requires care and work. If the shrubs are cut back as the flowers finish blooming, or better still, when they are at their prime so that they may be given to friends or sent to shut-ins, they will often put out again and be in full bloom in the summer months. Wisteria often blooms again in midsummer and Buddleia seems to rejoice in sending out long, new, bud-sprays as fast as the old ones are cut off.

Annuals in Succession

Many annuals can be kept blooming over a long period of time if the flowers or seed-pods are carefully cut and the seeds not allowed to ripen. This is certainly true of Larkspurs, Phlox, Marguerite Daisies, Nasturtiums, Snapdragons and many others. But even so, there is often a lack of color or flowers to cut in hot months unless one plants flowers that love the heat. Sow this month such things as Zinnias (the improved varieties are almost as fine for cutting as Dahlias), Petunias, Balsams, Vincas, Gaillardias, Rudbeckia, Globe Amaranth, Portulaca. (This last can frequently be used in the Pansy beds, for it is just time to plant Portulaca when it is too hot to expect much from Pansies. This is also true of Torenias and Browallia; the Torenias even resembling the Pansy in having a velvety surface of pu and yellow. The Mexican Poppy ca sown broadcast in an open bed and stand any amount of heat, bloo throughout the summer.

Fall Gardens

The fall garden can have the abundance and variety as the s garden, if one will only plan and for it. And now is the time to p many of the plants, especially the that are slow growers such as Jasm grandiflorum, Bougainvilleas, and tigonon leptopus, which is not a grower, but if planted now will such an abundance of growth, th mass of rose color when it is in and seed (the pod calyx becomes rose) will call the attention of a pass. Clematis paniculata is an fall-blooming vine well worth pl now.

Duranta, Althea, Hibiscus, Poin Cestrum (Night-blooming Jas several different Mallows, Golden Jerusalem Artichoke, a Small flower growing low to the g and another with similar folia flower which shoots up ten feet o before it blooms, the Klondyke C Golden Rod, Ageratum, Purple Red Salvia, two of the Eupl (Snow-on-the-mountain and F the-mountain) are a few of the that can be planted now for fi effects. Later, in June or July plants can be started for fall bl

Tropical Effects

Spring, summer and fall garc look more imposing if enclosed the eye is automatically focu the garden itself. Therefore sc the garden with trees, vines and where possible. Here it is so get a tropical effect with B Elephant Ears, Ginger-lily, Bu lily, Caladiums, Japanese Ric plant, Castor-bean, Cannas, phas, Coleus and other large-lea that it is small wonder that n gardens have clumps of Ja toward the back. Bamboos, Agaves, Pampas and other will also make handsome p even in small yards. Try cove old ash heap or other u mass in the (*Continued on p*

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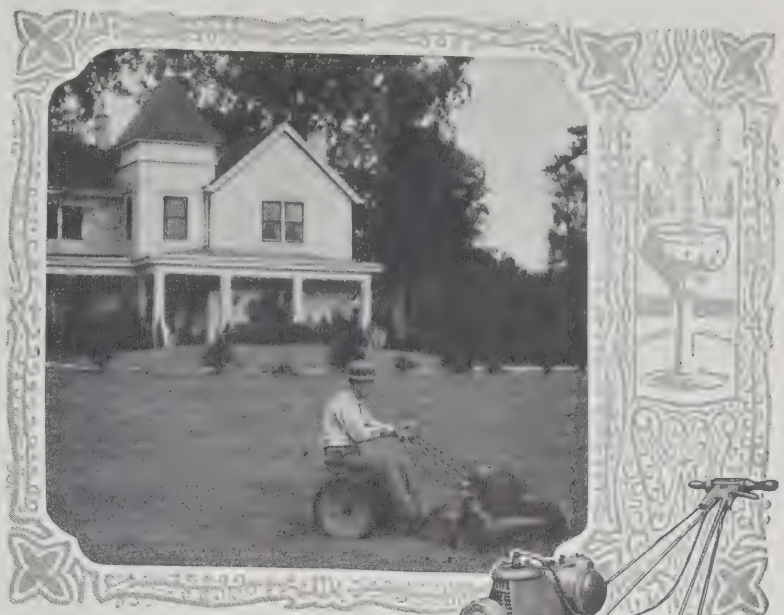

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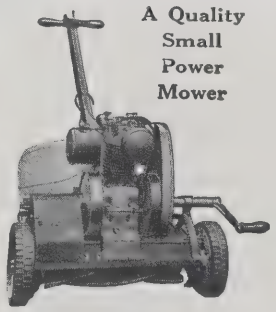

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Dept. D Racine, Wis.

New York Office:
245 W. 55th St.

WHITTALL RUGS

are made from
ENDURING WOOLS

THE superb quality of Whittall Anglo-Persian rugs has its origin in those far away countries where alone may be found the long, tough fibred wools from which the finest rugs and carpets are woven.

These fine wools are inspected and selected by our own trusted buyers in the foreign markets.

On arrival at the Whittall Mills, these wools are so expertly graded and blended that the yarns are both soft and resilient, strong but pliable, lustrous yet durable.

As no one kind of wool can possibly have all these essentials of quality, each Anglo-Persian rug represents a scientific mixture of wools from sources as widely scattered as Persia, India, China, South America or Scotland.

After these blended wools are cleansed, dried, carded, drawn and combed, they are ready for spinning into triple-stranded yarn.

These are preliminary steps, before the yarns are even dyed and woven into the Whittall Rugs which grace the floors of so many American homes.

Considering the care and skill employed even in the initial steps of its production, is it any wonder that the Whittall Anglo-Persian ranks high among the world's finest machine-woven rugs?

M. J. Whittall Associates, Ltd.
WORCESTER, MASS.

Look for the Name WHITTALL'S THE MARK OF QUALITY WOVEN into the back of the rug you buy

Whittall Rug Catalog in Colors Mailed on Request

Your Garden in the South

Continued from page 182

yard with a dense growth and see what a fine effect can be gotten in a short time.

Lawns

Grass grows so fast during the warm and rainy days that it must be cut every week to keep it nice and smooth. As the Winter-grass dies out one can see where there is too much shade for Bermuda Grass to grow and put in other plants for ground-cover. Ferns, Forget-me-nots, and Begonias are good if the ground is not trodden on and there is sufficient moisture, but in dry places or where there is some walking, English Ivy is better, or a coarse grass called here Snake's-beard or Spanish Grass (Ophiopogon).

Vegetables

It is now time to put in all the tender vegetables, Okra, Squash, Cucumbers, Melons, Bush and Pole Beans, Cashaw, Pumpkins, Sweet Corn and a second crop of Beets, Radishes, Carrots, Lettuce, Mustard, Endive, Swiss Chard, Parsley, Cress, and Roquette. Irish Potatoes planted early are now ready to dig, and Sweet Potato slips should be put in. Weeds must be hoed out and the soil broken at least once a week around the young plants so the moisture in the soil about them will not dry out too rapidly, for the young plants have short root systems that do not reach the moisture stored in the unbroken soil.

Spraying

Buddleia and many other plants in both the vegetable and flower garden are often attacked by red spider, causes the leaves to look rusty ar off and soon kills the plant. At th signs of this pest the entire should be sprayed with a combi spray of oil emulsion, nicotine sul and arsenate of lead. This will no rid the Buddleia of the red s but may be used on Roses, Can Peaches, Grapes, and any other affected by disease or infected with caterpillars, plant-lice, scale, and If there are signs of mildew or molds, such as blackspot, some deaux paste should be added t spray.

Ants

Ants come out in great numb this season of the year and ever should put out ant poison, accord the directions given by the Entomological Bureau, so that th will eat that poison honey inste 'planting their cows' on the Roses and other valuable plants.

Cut-worms

If cut worms, pill bugs, or pigs are in the garden, a bran should be put out at once. This is by mixing one pound of bran wit half cup molasses, one ounce green, half orange (rind as well as chopped fine, and enough hot to make a stiff mash. This sho put on the ground where plants fected by cut worms, etc., and th covered with a brick or board s and children cannot get it. Th will smell the orange and go un brick.

Delphiniums from Seed

THE seed bed itself should be made up of soil that will drain sharply, and will at the same time suspend moisture around the root of the young plant. A mixture of one-third each of garden loam, leaf mould, and sand will provide this condition. The situation of the seed bed should be in full sun for growing the young plants on to transplanting size, but for the actual germination of the seeds, no sun is required.

The seeds should be sown in rows, about 3 inches apart and only covered to the depth of the seed itself, never more than $\frac{1}{8}$ inch. Thorough moistening of the soil is necessary and daily attention to make certain that the soil does not dry out. Shade the planting with burlap or a close lath cover and always allow a free circulation of ai ventilation is important.

In about 20 days the last se have broken through the ground pair of pointed leaves. Remove cover and allow full sun until th leaves, or true leaves, appear.

Now is the time to transpl seedlings to their permanent pl inches apart, and shade for 3 or allowing air to circulate freely the plants. When the roots hav hold and the leaves and stems to carry their weight the coveri be removed and the plants left sun and rain.

Spring plantings should sho in the early fall, and will be at th the following spring.

Ten *warm* little fingers ~ ~ in a *comfortable* room

Ten little fingers that ripple over the keys—ten pink, warm fingers that are cold no longer—at least not since the house is *Thatcher heated.*

No more chilly playrooms—no more stiff-fingered piano playing since the new Thatcher Elite Boiler came.

Now the house is snug and warm—the heat, driven upward by the powerful boiler, warms every room to just the right degree.

What a handsome new Boiler it is—with its scarlet jacket of enameled steel, and its beautiful black enameled trimmings!

How different the cellar is since it came!—How clean!—How attractive! What an incentive to make the cellar a "den" for dad and the boys!

And as you open the fire door and look inside at the fiery tongues of flame licking upward you see the beginning of the reason for Thatcher heating efficiency — "staggered fire travel". This is our system of shunting the flames and hot gases back and forth through the water surfaces for quicker and more positive heat.

When your own home is *Thatcher heated*—you will no longer fear the cold of mid-winter nor the damp chill of early spring.

Important! The new Thatcher Elite Boiler will operate efficiently whether you use coal or oil as a fuel.

The New Thatcher Gothic Radiator

And here's the new Thatcher Gothic Radiator — gracefully proportioned and designed in keeping with the modern trend of home construction. A slender, graceful, handsome radiator is the new Thatcher Gothic—and its heating efficiency is even greater than the old-fashioned style! Ask your architect, and heating or plumbing contractor!

THATCHER

Elite ENAMEL JACKETED Boilers

BOILERS - FURNACES - RANGES - RADIATORS

Write for descriptive booklet on the Thatcher "Elite" Boiler and the new "Gothic" Radiator.

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Bru-CELL-ized flooring is insect proof. It is easier to lay, scrape and sand. It is moisture-proof and will not change in size; is more durable, and takes a superior finish.

Any home, old and new, may have fine plank floors —expensive methods of laying now unnecessary.

A Plank floor

true Colonial—in all but cost

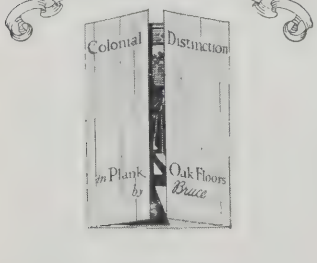
SOLID OAK PLANKS—the incomparable floors of Colonial days, distinctly American, and different. These beautifully grained wide and narrow boards, laid at random, are now within the reach of everyone.

No longer do wide boards need to be laminated or veneered to keep them from shrinking or swelling—a costly process that has made plank floors too expensive. Nor are extra precautions in laying necessary to keep them true and level.

Bru-CELL-izing solves the plank floor problem. This remarkable process, perfected in the Bruce laboratories, co pletely protects the wood fr the effects of atmosphe moisture. Bru-CELL-iz makes possible the satisf tory use of solid oak plan

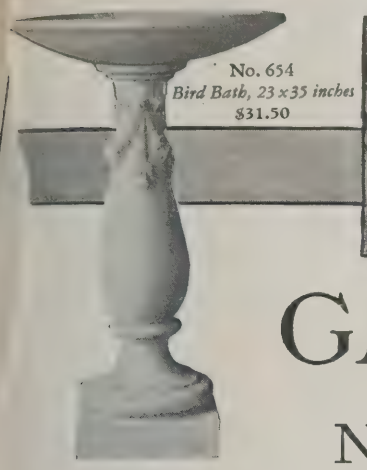
All who want the unusua floors, may now have Colo plank floors at an expense greater than that of ma perishable and temporary fl coverings. Write us tod

E. L. Bruce Co.
MEMPHIS . TENNESSEE
Largest manufacturers of oak flooring in the world

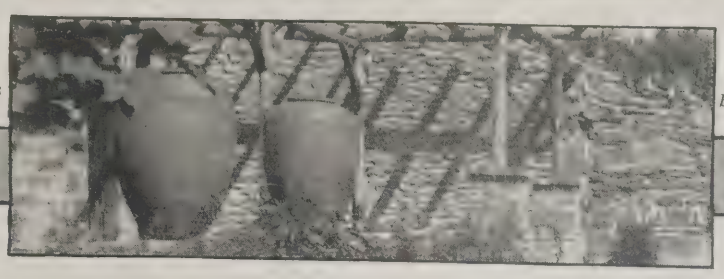


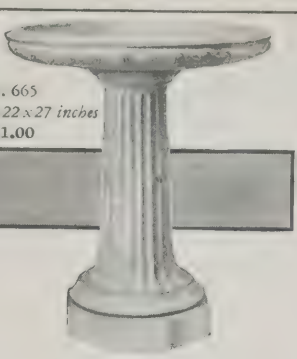
Write for this illustrated booklet. It is free. Essential features of true Colonial atmosphere are indicated, with authentic historical background—how to achieve distinctive variety in floors.

Bru CELL ized Oak Flooring
PLANK · FABRICATED BLOCK · DESIGN · STRIP



No. 654
Bird Bath, 23 x 35 inches
$31.50





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Bird Bath, 22 x 27 inches
$21.00

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Gives the Essential Touch

Established
1810

NOW is the time to make your Garden and Terrace more charming through the use of Galloway Pottery. ¶ The numbers shown are but a few of the interesting pieces in our extensive collection of strong and enduring high-fired Terra Cottas.

¶ The Bird Baths and Sun Dials are usually made in light stony gray, the Jars in gray and light red terra cotta, or a rich blue-green glaze. Benches have stone tops with the light gray terra cotta supports to match. Safe delivery and your satisfaction assured.

A complete catalogue sent upon receipt of ten cents in stamps.

GALLOWAY TERRA-COTTA COMPANY
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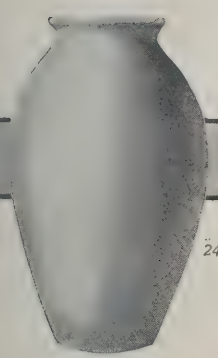
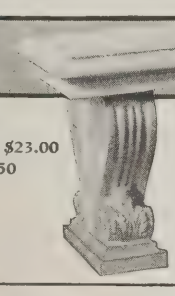


No. 553
24 in. high, Red or Gray, $23.00
Green Glaze, $37.50



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48 inches long, $39.00

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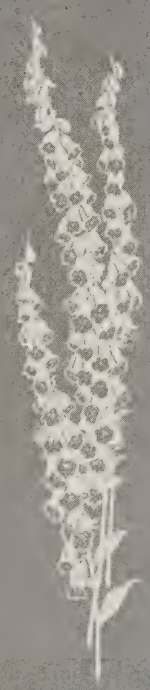
Sun Dial, 54 inches high
$82.50

Prices F. O. B. Philadelphia

A Hardy Flower Garden for $5



Here's your chance to get the finest of full rooted, blooming age plants.

51 plants for $5
101 plants for $10
A Formal Garden for $50

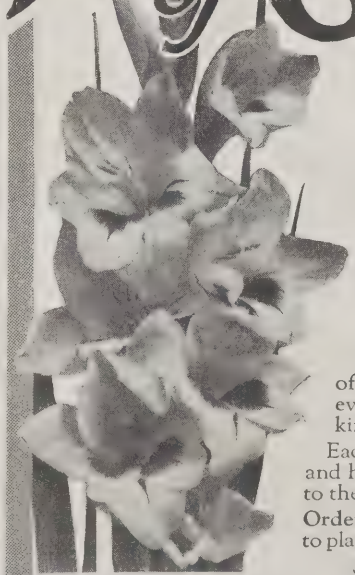
The $5 group contains all the favorite old timey ones. The 10 and 25 dollar, also contain extra choice ones, likewise several notably rare varieties.

Planting plan free with all three offers. Every plant carefully dug and painstakingly packed. Anything not right, we insist on making so.

Order early. Plant early. Have early blooms. Send for free catalog. It's a mine of garden information.

Lovett's Nursery
Little Silver, New Jersey
Box 125

A Garden Full of Gladioli for $2.00



The Gladiolus is one of the most satisfactory flowers grown and there is no reason why every family cannot enjoy this grand flower —it is as easy to grow as the potato.

They bloom from July to frost if you plant a few bulbs each month from April to July.

For **Two Dollars** we will send 50 Bulbs of our **Grand Prize** Mixture, which covers every conceivable shade in the Gladiolus kingdom.

Each year we sell thousands of these bulbs and have received numerous testimonials as to their merits.

Order Your Bulbs Now so as to have them to plant when you begin making your garden.

Simple cultural directions in package

Mail your order with Check, Money Order, Cash or Stamps, mentioning this advertisement, or call at any of our stores, and secure this splendid collection, sent prepaid to any point in the U.S. east of the Mississippi. **For points West and Canada, add 25c ($2.25).**

Our 1928 Spring Seed Annual sent on request

Stumpp & Walter Co
30-32 Barclay St. New York City
Branch Stores in Newark, N. J., White Plains, N. Y., Baltimore, Md. G

Maytime Freshness for Growing Things All Summer Long!

COLORFUL gardens with their growing things of beauty are kept fresh and healthy all summer with the improved Double Rotary Sprinkler. Life-giving moisture is spread over lawns, shrubs, and flowers in Nature's way—"like a gentle shower."

A Gentle Shower Any Time. The revolving wheel of the Double Rotary breaks up the rushing water into rain drops—that fall like a gentle shower. Any day—any time—you can treat your growing things to a refreshing spring shower with the Double Rotary Sprinkler.

Sprinkles 5,000 Sq. Feet—The double rotary action of this sturdy sprinkler allows it to sprinkle in a circular area up to 80 feet in diameter. With thumb and forefinger, it's easy to move this adjustable nozzle and sprinkle any size circle down to 15 feet in diameter. Sprinkles small patches as well as large lawns. Easily moved on its sturdy skid base.

Home owners, landscape and golf engineers, and gardeners recommend the Double Rotary for its convenience and efficiency. It has been proved a labor-saver because it operates automatically and requires little attention. It is long-lasting—durably built of standardized, interchangeable parts, all working in a bath of oil.

Try 10 Days—If not thoroughly satisfactory, send it back at our expense. Your money will be cheerfully refunded. ***Price, $12.50,*** postpaid anywhere in United States. Order from this advertisement or write for descriptive literature.

[Dealers: Write for Special Proposition

THE DOUBLE ROTARY SPRINKLER COMPANY
201 Coca Cola Building Kansas City, Mo.

DOUBLE ROTARY
REG. U.S. PAT. OFF.
SPRINKLER
Next Best to Rain

Heirlooms of Yesterday and Tomorro

Continued from page 157

Savery was sold at the American Art Galleries last November for $7,500. Highboys were also made of cheaper woods. Maple was much used in New England; but, strange to say, such highboys, which originally cost only a few shillings, now bring fancy prices. At the sale just referred to a New England maple highboy of 1730 brought the astonishing price of $3,500.

CHINA STEPS

It was just about 1730 that the flat-topped highboy began to go out of fashion and the scroll top came in. Before the cabinet-makers got busy with the top of the highboy our great-great-great grandmothers had already thought of a very excellent way of making this important. Three blocks (as shown in the picture herewith) of mahogany (or whatever wood the highboy was made of) were cut to fit the highboy and placed on the top slab. On these 'steps' handsome pieces of china were built up in the form of a pyramid and produced a very decorative result. These 'china steps' are now rare; but the idea is so simple that any one having a flat-topped highboy can very easily have any workman make three graduated blocks of cheap wood and stained mahogany color, for, as very little of the wood is visible when the china is properly built up, the inferior wood will not be noticed.

WEDGWOOD

Wedgwood (*not Wedgewood*), is a name as fascinating to the collector as that of Chippendale. Josiah Wedgwood was the greatest of all the Staffordshire potters and from an early age, even when working under Whieldon at Fenton, he began experimenting. With Whieldon he produced the beautiful 'cauliflower' ware with the green glaze. After he established his own works, he brought out one beautiful novelty after another. The most popular of all was the 'jasper ware,' consisting of a smooth paste that was colored in lovely shades of dark or light blue, sage green, salmon pink and yellow, fawn and lilac, and decorated with white cameos in the classic style. Before this, however, Wedgwood had perfected his 'Egyptian black,' or 'black basalts,' now greatly prized by collectors. Sometimes a fine piece, like the teapot given here, turns up in an old cupboard, or is found in a country auction sale unappreciated by the ordinary person.

THE BANJO CLOCK

Everybody to-day wants a 'banjo clock.' There are many to be had, some of them are fine, others good, and still others 'fakes.' The finest banjo clocks were made by the Willards of Boston. Simon Willard invented an 'improved timepiece' in 1802, which was the banjo clock, although this name was not given to it. It became instantly popular. The cases are mahogany with gilt ornamentation, or all glasses with gilding and paintings on the glass. The square glass door at the base is always painted with a Aaron Willard was fond of nava landscapes and even the Amer As a rule, Aaron's clocks w ornate than those of his broth The one shown is from the fam Collection and is reproduced courtesy of W. and J. Sloane knows when the name 'banjo' to this clock.

GOAT-AND-BEE JU

Sometimes in an old cu quaint little jug, not particular ful but very interesting, is d having at its base a goat an front a bee. Any one finding and bee jug' is fortunate, be piece is rare. If the jug con mark of a triangle and writt 'Chelsea 1745' it is proof that from the Chelsea factory and w its first productions. The 'goa jug' originated with the silv and silver goat-and-bee jugs hall-marks of 1739. One of managers of the Chelsea Work silversmith, Nicholas Sprim it occurred to him to copy th 'goat-and-bee' silver jug in

A TOPAZ BOHEMIAN POKAL

Bohemian glass is a 'for There are many varieties and all beautiful. The finest type i white, resembling rock-crystal often exquisitely engraved Another favorite is the to dark brown and pale ambe also beautifully engraved, quently with a stag boundin the forest. The piece shown standing cup with cover fro lection of Mrs. Charles Hilt it is dark sherry color with a and trees. The Bohemian n 'standing cup' is Pokal.

SHEFFIELD PLA

Collectors are eager to p pieces of Sheffield plate. S prefer it even to silver, for th which the silver is plated le lustre to the silver. The p discovered by accident in 1742 and the new produ named 'Sheffield plate,' n course, the silver-plating Pewter was immediately dr use as a substitute for silv plate lasted until 1840. It and greatly desired by Everything made in silver w in Sheffield plate. To-day prized pieces are the salver crust edge' or grapes and border; cake baskets; and c ers and trays. The handso shown here is from the M Museum.

This monthly feature by Mis author of a fascinating volu Collecting of Antiques,' lectur known authority—commence and will be continued in issues. THE EDITORS.

TRANSPLANTED from an estancia in old Seville to a distinguished residence in town, this bathroom is as Spanish as the sharp click of castanets. Though the shutters dull the direct stare of the sunlight, the room is bright with the gleam of tile and porcelain; rich with an old world beauty, replete with sanitary convenience that is truly American. A good idea? You will find many more, equally good, in *New Ideas for Bathrooms,* a book liberally illustrated and full of inspiring decorating suggestions, blue prints, floor plans, and practical plumbing information. It will gladly be sent on request. . . . It is a pleasant surprise to consult a responsible plumbing contractor and learn that a complete Crane installation rarely costs more than any other of comparable quality.

CRANE

VERYTHING FOR ANY PLUMBING INSTALLATION ANYWHERE

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THE right wallpaper not only makes an artistic interior more beautiful, but it has redeemed and glorified many a dark and dismal room. In the decoration of your home there is nothing that adds so much beauty at so little cost as wallpaper.

Nowadays there is such a wealth of exquisite coloring and beautiful design in wallpapers that the right choice is easy to make. Moreover, Selected Wallpapers chosen by The Service Committee of The Wallpaper Manufacturers' Association, are now available for rooms and homes of all types.

As a practical aid in making the right choice, a handsome Portfolio, containing color illustrations of typical interiors and actual samples of twenty-five SELECTED WALLPAPE will be sent to any homeowner on request.

These papers are widely distributed so that t should be readily secured through any wallpaper dea Because of the broad range prices, you will find a g wallpaper, giving good style value for practically any k of room in any type of ho

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The Many-Hued Colors of a Garden of Perennials

enjoyed every year after they are once Why not determine now to have a per- beauty-spot on your grounds and do it *this* The ever changing panorama of shades and waving and nodding—coming and going— a pleasure now enjoyed by thousands who inted Horsford's Perennials in years past. ing there's Iris—then Poppies; Peonies fol- Pinks, Lilies, Larkspurs, Sweet William, ulas, Phlox and others, to the end of the list ing until freeze-up.

ord's Perennials are extra hardy, thoroughly ed; growing readily in this rigorous latitude -should thrive and bloom most anywhere, r simple, cultural directions are followed. ur many varieties of exceptional sturdiness ly-blooming habit are

HORSFORD'S REGAL DELPHINIUMS

each—$3.50 Dozen

levelop large, individual blooms, mostly on tall, compactly grouped spikes. The strong and resist wind pressure exception- w. They are irresistible! Widely sought for at beauty on the root, or as cut flowers. its range from light pinks to dark, satiny ese larkspurs have a dignity, "truly regal".

FREE 1928 CATALOG

orsford Garden Book embraces a wide perennials all described and priced. Many 5¢ each; $2.00 a dozen. A few are more, some ce. Full cultural directions are given. Send today. If you will tell us something about size of space, exposure, etc., we will ad- regarding rotation of blooms, color har- lanting cautions, fertilizers, when and how etc.

o specialize in Lily Collections, Ferns, ailers and Climbers, Evergreens, Shrubs, ants, Roses, etc.

E. I. HORSFORD
CHARLOTTE, VERMONT

Include Butterfly Bushes

. . . in your . . .

TREASURE GARDEN

MICHELL'S everblooming Butterfly Bush (Buddleia Variabilis Magnifica) has won its way to the hearts of flower lovers, until today it stands as one of the most popular of the novelties of the hardy shrub family.

To those who have grown it before it needs no formal introduction due to its many fine qualities.

Attaining a height of about four feet the first season, this glorious child of nature may be relied upon to produce an abundance of flower spikes measuring in most cases eight inches long, each spike formed of countless miniature florets that are a gorgeous blending of lilac and heliotrope.

ONE of the really satisfactory cut flowers whose sweet scent endures in garden and home alike—and perfectly hardy too—needing even less protection than you would give the hardy rose.

Illustrated in natural color in MICHELL'S 1928 CATALOGUE

Three plants of this marvelous shrub will furnish endless joy to the flower lover throughout the growing season up to severe frost, when it will sleep and rest until the next year, only to burst forth again in increased glory and magnificence to delight the heart of the butterflies as well as the human, for its name is derived from the magnetism it asserts on the many brilliantly colored butterflies who daily pay tribute to this masterpiece of the floral world.

Extra-strong plants, which will bloom the first season, 3 for $1.15; 6 for $2.00; postpaid. 12 for $3.50; 25 for $6.50; 100 for $20.00; by express, not prepaid.

Michell's Green Velvet Lawn Grass Seed

This year you may enjoy a lawn of rich lustrous green beauty, one that will withstand summer sun and winter cold as well. Sow now to banish lawn troubles by sowing this ideal mixture for quick results and lasting satisfaction.

By parcel post anywhere in the U. S., 25c pt.; 45c qt.; 90c for 2 qts.; $1.60 for 4 qts.; $2.90 per peck; $10.35 per bushel.

Make Check or Money Order payable to Henry F. Michell Co.

The thirty-seventh issue of Michell's Annual Catalogue, listing all of the worthwhile creations of the floral and vegetable world and containing countless cultural directions and numerous color pages, will be mailed free on receipt of your request.

MICHELL'S SEEDS

520 MARKET ST., PHILADELPHIA, PA.

10 GALLONS RICH LIQUID FERTILIZER 10¢

No Other Expense — Have Beautiful Gardens

TEST this, the richest complete fertilizer, as that is convincing. Added to water, it will make approximately ten gallons of strong, liquid fertilizer. Fertilizer in liquid form is the most approved way of applying plant food to obtain quick results. This is offered for ten cents, to prove its value to you by actual test.

Make Your Garden Thrive

This valuable, complete fertilizer is many times richer than manure.

NITROPHOSKA

"A Little Goes a Long Way"

A new and better fertilizer containing 15 per cent Nitrogen, 30 per cent Phosphoric Acid and 15 per cent Potash, in promptly available form, the foods plants most need.

Use Nitrophoska early in the season on gardens, lawns, about shrubbery, hedges and trees of all kinds. That will form the right foundation for proper growth throughout the season. Well fed plants and trees are best able to resist the attacks of insects and disease. Then follow with light applications of

FLORANID

(*UREA*)

"It's Nitrogen From the Air"

It contains 46 per cent Nitrogen, pure organic plant food, many fold richer than the best manure. Both Nitrophoska and Floranid (Urea) are clean, odorless, safe and easy to use.

Nitrogen is the food plants most need and it should be regularly supplied in moderate quantities.

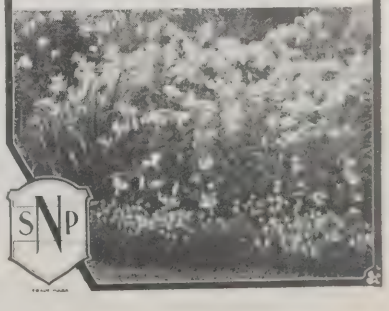
This treatment will insure the best possible results in gardens and on lawns. It will improve the foliage of all plants, the quality, size and color of flowers, fruits and vegetables and it will increase production.

TRY these new, scientific fertilizers. A test will demonstrate the truth. That is why we offer to send sufficient of either Nitrophoska or Floranid (Urea) to make ten gallons of liquid fertilizer. May be mixed as wanted or applied dry. Both for 20 cents. If only one is wanted, say which. A pound of each, Nitrophoska and Floranid (Urea) sent postpaid for one dollar.

They may be safely used for all plants.

Garden Booklet FREE. Gives much valuable information on fertilizing.

SYNTHETIC NITROGEN PRODUCTS CORPORATION
Garden Department
285-M Madison Ave. New York



Marjorie Joesting, famous beauty, keeps radiantly healthy the HEALTH BUILDER way.

HEALTH AND BEAUTY

in 15 minutes a day

WHY envy the youthful slenderness, the radiant health that are so essential to beauty? 15 minutes a day of enjoyable, *effortless* exercise with the Battle Creek HEALTH BUILDER enables you to look and feel years younger. Dieting or back-breaking exercises are no longer necessary. With the HEALTH BUILDER you can exercise and massage your whole body, right in your own home—*and without effort.*

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With the Battle Creek HEALTH BUILDER you receive a massage-vibratory treatment that is better than an expert masseur could give you. It vigorously massages the heaviest muscles, takes off surplus weight safely and surely, peps up sluggish circulation, aids digestion, and firms up flabby muscles.

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Three Irises successfully used for edging in Mrs. Peckham's New Rochelle, N. Y., garden—King Carl (right), Joya (center), Azrail (left)

Flowery Edges to Vegetable Plots

Continued from page 154

We are fond of Singles, among them the easiest grown being the American Pillar and the most beautiful, Emily Gray. Our favorite climber is Silver Moon with Emily Gray second, and Dr. Van Fleet and Christine Wright close thirds.

In our climate a good collection of Climbing Roses is not amiss because, if chosen wisely, they can cover a long period of bloom and may be combined with other creepers such as Clematis, Polygonum, Akebia, etc. They are useful, too, on posts or small arbors to break the line of a border along paths where there are plants such as Irises, and the young Rose foliage makes a good foil for the Iris flowers, relieving the eye by drawing it up at intervals. Plants all of the same height cause a monotony that cannot always be counteracted by contrast in color.

Using Tall Bearded Irises for such borders has become a habit, as they are easy of cultivation and soon give an array of flowers; but not enough care is exercised and instead of just one variety, as we so often see, long borders should be made up of groups of many kinds. Do not plant them helter-skelter or the result will be spotty but let each group meet the next, and do not keep all the tall at the back or all the short to the front. The very short must not be at the rear, either, but medium-short may be there provided no very tall variety is in front of them. It simply needs a little ingenuity. The most attractive borders are combinations of other plants with these Irises, using low rock-garden subjects for the edges. Aquilegias and some of the very late Tulips are a help too.

It is not wise to count on the Tulips blooming at the proper time every year, because in a very early spring they may be over. There is no harm in having them and if they do bloom earlier, no matter. You will have had your flowers anyhow and, if you have planned well, there was some earlier plant to give the Tulips a flowery support. As the majority of the Tall Bearded Irises have blue and lavender tones which tend to disappear in the landscape, we must c the planting by a liberal use c yellow and white. This can be either by using 'selfs' of those co varieties that have clear wh yellow 'standards' or else we can duce the white and yellow amo companion plants.

We must avoid using many of called 'blends.' Mr. Wister's d tion of them as 'dingy' should g a definite scare, and, if we are wis is where we spend the most mo the fewest plants. Not all good are those costing the most, but pens that the blends which are worth while are new and fairly so the prices are still up. Howev cost is a minor consideration. mind no garden other than a spec can afford to be without Ambass and if this gorgeous Iris is plante Mother of Pearl, Princess Be Queen Caterina, White Colum Campanula carpatica and the Sempervivum globiferum, it w as a sort of 'accent.' Even thoug very late and not in full bloom w others, the great, lush flower have a commanding presence. A good blend we all know is Lent A liamson, easy of culture, which n considered as having a general du effect. Be careful to keep it awa dark brown-reds and never put dark mass right next to dead Always combine some medium ton the two extremes and your result excellent.

A new Iris I have taken a fanc Germaine Perthuis, again belong the blends and with her I should a to have the pale blue of Princes trice and yellow Shekinah, b deeper yellow Aurea near, while would be Rhein Nixe, a bi-colo White standards and purple falls these Irises would be Tulip Aft Camassia leichtlini alba, some ums just sending up their bu showing silvery-gray foliage, footstool of the pretty Sempe

Continued on p

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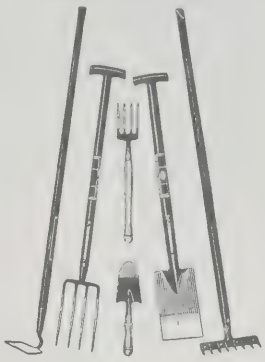

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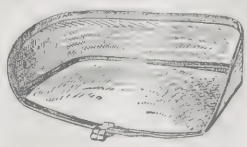

A clever idea for the garden is this English-type kneeling mat of woven Chinese rushes made with waterproof bottom to keep out dampness. The sides are built high to protect the clothes. Each . . . **$1.50**

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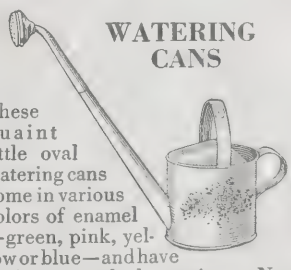

These quaint little oval watering cans come in various colors of enamel —green, pink, yellow or blue—and have gayly painted decorations. Note the extra long and graceful spout.
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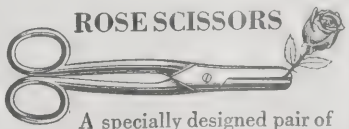

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Flowery Edges to Vegetable Plots

Continued from page 194

atroviolaceum. Iris Bruno is another to use as a definite center to work from, being dark also and one of the finest of the Dominion race.

One should keep in mind that anything yellow or orange would not be out of place here and try as a contrast the shorter and very showy Iris Gold Imperial, Tulip Lucifer and, for a blue touch, Rocky Mountain Columbine and the much maligned but lovely Iris Lord of June. I would underpin this group with Sedum sieboldi as the leaves are a delightful gray-blue and the tiny red edges will not hurt the effect, but to pull all together.

Having taken so much space for these noble blends it would not do to overlook Mr. Williamson's very fine George J. Tribolet which can safely be placed with the blue Crusader and Mme. Gaudichau with Kashmir White and Flammenschwert to lighten the mixture. Dwarf white Hesperis, Alyssum rostratum, and Sedum spurium could spread below. The frequent use of a soft, pale blue Iris—as Princess Beatrice or Mary Barnett—always seems to help. The latter is very beautiful for the orange beard gives it a cachet that raises the interest. A fine arrangement for this Iris is with Steepway, Tulip Heloise, Aquilegia chrysantha and Sedum rupestre minor.

You will note that nothing has been said about Irises of the Plicata group, but they may be used anywhere if in not too great a number. Satisfactory ones are Dimity, Ma Mie and My Lady. Whites are often preferable but those that are really good are hard to find. Mrs. Perry is a gorgeous thing but scarce as yet. Kashmir White, claimed to be a poor grower, does well here. Balaruc gives a good mass as does Innocenza and the old, short Mrs. Horace Darwin is not to be despised. Micheline Charriare is a fine shape and tall. Not having grown her myself it would not do to say if she will be satisfactory as a general border plant. A lovely white or shorter stature is Chartier, raised by Mr. Hall. I am much impressed with the value of this Iris and of Mr. Sass' varieties with rather crinkled flowers. One can contrast the shapes of Iris flowers by using some intelligence. Most of the Sass seedlings are short so they are nice for combining with taller varieties possessing a smoother type of flowers and which have more drooping falls. Dark, rich blues are rather hard to find: Mme. Gaudichau, being of only medium height, is not very satisfying; and Joya, which is taller, has a rather weak stem for the weight of the flowers. It seems a very good Iris until the morning after a heavy rain. Sir Michael—now *there* is an Iris! If it lives up to what seemed on first acquaintance we will have something worth while, for it is a rich, dark blue with a flash of red in it I cannot find words to describe, and the sha carriage are regal. Of dark red- there are only a few, the short veque being extremely useful. It is ive with some clear, rich blue bico I can imagine a grouping combin Morgan's Mount Royal, Arch Sweet Lavender, Aliquippa (th pale yellow I know), Loreley, an thus plumarius with Sedum sexa for a touch of bright green. To len add Rocky Mountain Columb blue and soft creamy white. F combinations such pale rose Georgia, Cecil Minturn and Sus are all good and I like Georgia with Mildred Presby, Tulips Manning and Viking, Delp foliage near by, Sedums, Lydi sieboldi, Arenaria montana. of darker red-purple would be g Iris Edward Michel—or, if you it, why not aim high and ha wonderful variety of Mr. Shull's ing Splendor?

While choosing among the the Irises one can vary consider having those that hold themselv erect and again those with curving and more open habit. ordinary garden the fellows h the hybridist looking for straig med plants, will lend a little to thetic. Restraint is essential a have few plants that twist and t or two to stake will be enough.

A border with Bearded Iris difficult to keep in good cond some years. The small bulbs rock-plants will not need much a except to watch that a stron does not overwhelm a weaker. and stirring of the surface soil done and some ground limest be pricked in at times. The T you are a person who desires exhibition blooms, may be lif year directly the stems lose th ness and in their places can g hinums, etc., brought from th or even Dahlias can be set out. best time for planting Dahlias that we have so many varie types we can easily find someth able in that line. Tulips may for three years and give goo after which they should be rene Irises need little care. After the become slightly crowded, in digging out the whole clump a ing it, spoiling your effect for it is possible to carefully l clump at places with a hand pull away rhizomes, leaving t properly thinned, but the gre undisturbed. You may then small amount of fresh, new soil everything down firmly. Stin will object to this method as i their ready excuse to their a friends, 'Wait until I take up to divide, I will give you a p

Exhibition of Decorators' Club

THE second annual exhibition of the Decorators' Club will be held at the Grand Central Art Galleries from April 3 to 14 inclusive.

The Exhibition will show a number of living rooms done by prominent and well known decorators—members of the Club. A special feature will be the proper and adequate choice and placing of pictures, fine objets d'art—and orative silver which is being by the Club as a general cont our American Art expression. is working in coöperation Grand Central Art Galleries the first time making a spec relative to the importance in the home.

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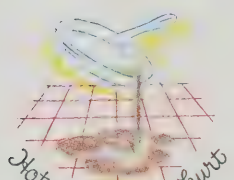

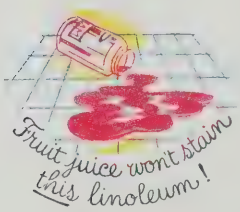

YOU can't send a floor to the cleaners when accidents happen! Spots and stains call for hard rubbing and scrubbing. You can't escape it . . . unless your kitchen is floored with one of the new GOLD SEAL INLAIDS.

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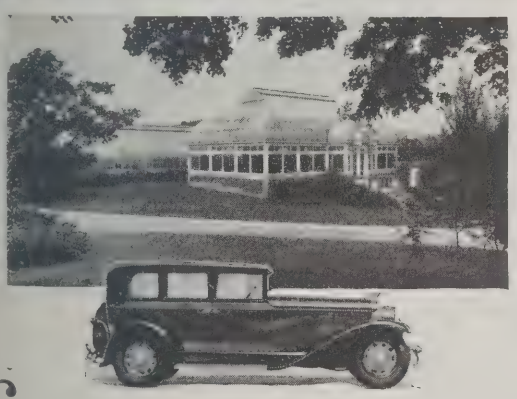

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HEARTHSTONE EDITOR'S CHAT

This department is for every one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. Its purpose is to bring to each homemaker all the aid and advice so freely offered by the business world to-day. Booklets (see next page) may be had upon request. Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

A Greenhouse for the Livable House

TO MOST home owners the possession of a greenhouse has seemed a luxury quite beyond the realm of possibility for him. That it is almost a necessity of even the small home, and should be and easily can be part of even the simplest suburban home is, however, beginning to dawn upon the present-day home owner who is rapidly realizing the health values of sunshine (every bit he can get), of flowers and cheer all the year round!

Gardening is to-day one of the outstanding phases of our national life. Across the nation this interest in creating beauty has swept, penetrating the smallest villages, the most remote sections. This is not a passing fancy or fashion; it is a genuine appreciation of one of nature's really greatest gifts to mankind.

Above we used the word 'necessity' in speaking of a greenhouse. We used it advisedly. It *is* a necessity if viewed from the point of its added contribution to the joys of home life and to health. In these days of intense living, of rush and pressure, we need everything possible that will offset these conditions and bring to us a sense of rest and peace. A greenhouse, however small, can do this. Not even the grouchiest business man can come down to breakfast and fail to find his lowering humors lifted if his dining room opens on to a spot where flowers are budding and blossoming. Fortunately for us all, this no longer means a costly luxury. There are greenhouses to-day for every house and purse. The old-time bay window has grown up and has become through modern building methods a greenhouse. Nor does this have to be built in when the house itself is put up, for these glorified bay windows are now manufactured ready to be snugged up against the side of the house exactly as shown in the illustration. The old-time roof of the bay has gone and in its place is a curved, decorative roof of glass that insures the necessary light and sunshine, not only for the growing plants but for the human plants within the house as well. And this joy-giving addition is only five and a half feet wide and about thirteen long, with framework of steel, and all the wood the best of cypress, so that once built on it will last as long as the house itself.

If the house be so planned that there seems no place or space for such an addition, then perhaps a small porch could be turned into a conservatory or one be built in an angle made by a sunroom. Even a small stoop can have a lean-to built over and around it so that plants and flowers may be had when Jack Frost paints the outer world in silver.

And this brings up the manufacturing side of greenhouses for there isn't a place, whatever its shape, location or size that cannot have a greenhouse fitted to it. In fact, all the home owner has to do is to send his house plans and greenhouse needs and purse limitations to some firm making these flower-sheds and a greenhouse will be designed to fit. If one does not object to having his flowers grown at a little distance from the house (though, personally, I want mine close at hand) a lean-to can be attached to the garage, and there is this to be said for this plan: compactness and economy in heating result, since the two buildings can use the same heat.

One of the happiest solutions of the problem of the greenhouse at a short distance from the house is to have a passageway glass-enclosed so that one does not have to bundle up, as if for a journey, to see his flowers. This glass enclosure can cover steps and entrance way so that Mr. Businessman can stroll from dining room to greenhouse in leisurely comfort for his before-train-time-cigar. This all sounds luxurious, quite beyond the dreams of struggling young (or middle-aged) home owners. But it isn't! It does not cost half as much, for instance, as the newest make of car, nor many other things that we have come to consider essentials. And there is this, too, to consider when thinking of costs: the simplest lean-to greenhouse holds more, far more than just plants. There will be space enough for home keeping folk to gather around card or tea table in this flower-shed. There will be sunshine for an invalid; rest for weary minds.

These modern greenhouses are not the 'hot houses' of another day with their hot, muggy air. We know to-day that flowers quite as much as humans need ventilation, and so the modern greenhouse has become not only a light, sunshiny spot but airy and well ventilated. And there is health in all this sunshine, as we are more and more coming to realize, and health in attending to plants and working with them. The greenhouse, then, is more than a greenhouse, it becomes in its small way a home sanitarium.

To make it easy to have one of these sunshine houses the modern manufacturers have met this need in pleasing fashion. It is possible to buy them on the budget plan, which simply means a certain price paid when ordering, the rest in monthly payments. Very simple is this plan with all the joy that comes from having your greenhouse while paying for it.

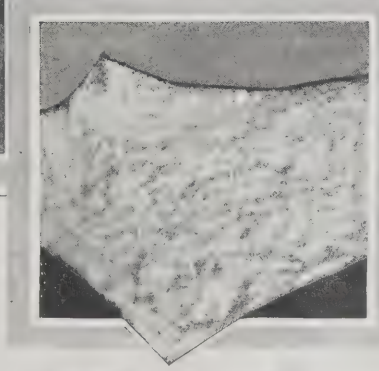
We have spoken of the health and happiness value of these houses. There is still another value, increased property value for a greenhouse materially increases the saleability of any house. So assured of this is one New York architect that he makes a conservatory a direct part of his plans wherever possible, contending that a house is no more complete without a greenhouse than without a bathroom! And who of us is there who would not like to own one?

A 'bay window' greenhouse, which comes ready built, to be added to your home

Greenhouse Booklets

Ask for booklets by number only

GLASS GARDEN Lord & Burnham Co.	282
OWNING YOUR GREENHOUSE Hitchings & Co.	437
GREENHOUSES King Construction Co.	438
GREENHOUSES OF QUALITY Wm. H. Lutton Co. Inc.	439



-Wool is a blanket of fluffy wood fibre that looks
ls like sheep's wool and is its practical equiva-
insulating efficiency. Balsam-Wool is wind-
waterproof, fire-resistant, sanitary and durable.

It tucks in

— — the first requisite of a real insulating material

It will pay you to remember these simple facts when you select an insulating material for your house.

First, bear in mind that practically all insulating materials now on the market may be classified as either *rigid* or *flexible*.

The rigid type includes the flat, dense "board" types. The flexible materials are of the "blanket" type and are used as a lining in walls and roofs. They are *added* to the walls solely to make it easier and more economical to heat a house.

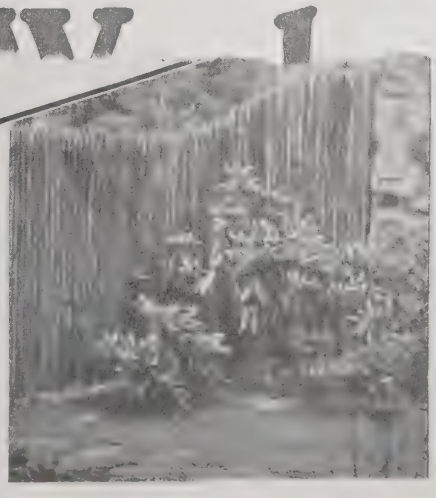
Balsam-Wool is this type of material. Any carpenter can easily tuck strips of this *flexible* material between studdings and joists and right into every crack, corner and crevice—around window and door frames. And obviously, this is the only way to make a house heat-tight and weatherproof.

Insulating value also depends on the *thickness* of the material. Authorities say that adequate results—the greatest savings—can be secured only by adding a *full inch* of true insulation throughout a house. Balsam-Wool is the only blanket form of building insulation sold in *full inch* as well as half-inch thicknesses.

Investigate the subject thoroughly before you spend a cent. Send now for a free sample of Balsam-Wool and our instructive booklet, "*House Comfort That Pays for Itself*"—the facts about *true* insulation.

WOOD CONVERSION COMPANY
Makers of both flexible and rigid insulation
Mills at Cloquet, Minnesota
Sales Offices in Principal Cities

to screen y
to keep out trespass
for flowers and shrubs. It
ful things, and it lasts a lifetime!



May we suggest that you take a look and see if you, too, can't improve the appearance of your home by putting up some **Dubois Woven Wood Fence.** *Chances are you can, and our representatives are ready to help you solve any landscaping problems—without obligation, of course. Just mail the coupon for photographs of various Dubois uses, erection data, and price list.*

"But let me see if the bathroom is presentable"

. . . Yes. Everything is ready for your guest. And the bathroom's spotless walls—its porcelain fixtures—its freshly laundered towels speak for your standards of cleanliness. . . . Your guest will notice. And approve . . .

But *is* your bathroom really up to date? Look at the toilet seat! Worn? Old-fashioned? Unsightly? Your guest will notice this too. Will wonder at your carelessness. For anybody knows that a new white seat—a completely modern and sanitary seat—costs only a few dollars to install. And what a difference it makes!

Attached in ten minutes

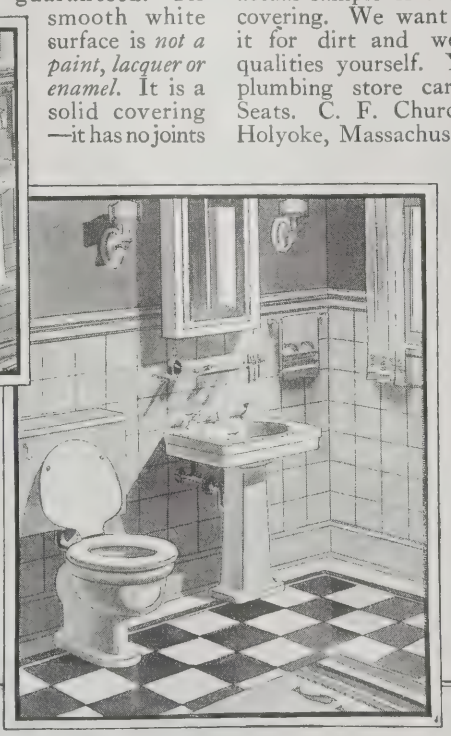
The Church Sani-White Seat can be attached in ten minutes to any bowl, with an ordinary pair of pliers. It is detachable; it can be moved whenever you move if you rent your home or apartment.

Every Church Sani-White Seat is definitely guaranteed. Its smooth white surface is *not a paint, lacquer or enamel.* It is a solid covering—it has no joints in which germs and dirt can lodge. It will not chip, wear off nor turn color. After years of service, it will remain free from cracks and imperfections.

Write for this illustrated, informative booklet!

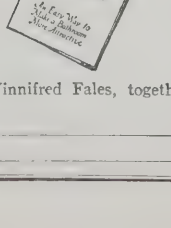
Mrs. Winnifred Fales, nationally known authority on interior decoration, has written a new booklet about bathrooms. It discusses rugs, curtains, color schemes and appointments. It contains practical suggestions for making your bathroom more modern and more convenient.

Mail the coupon for this booklet! Let us send you, also, an actual sample of the Sani-White covering. We want you to test it for dirt and wear resisting qualities yourself. Your nearest plumbing store carries Church Seats. C. F. Church Mfg. Co., Holyoke, Massachusetts.



No matter how many years it has been since your bathroom was built and equipped, there are easy and inexpensive ways of improving it. Mail the coupon for booklet! It will show you how easy it is to change a bathroom like the one illustrated above to the modern, attractive bathroom at the right.

Church Seats
sani-white
Sold by all plumbing stores since 1898



C. F. CHURCH MANUFACTURING CO.
Dept. E-4, Holyoke, Mass.

Gentlemen: Kindly send me your booklet, written by Mrs. Winnifred Fales, together with an actual sample of your Sani-White covering.

Name _____ Address _____

City _____ State _____

Insulating the House You Already Have

Continued from page 166

simplifies the problem of insulating the roof and attic at moderate cost. Heat losses through the roof are certain to be relatively greater than those through outside walls and floors. This is due to the fact that warm air rises, and also because the construction of the average roof makes its insulating value negligible. Unfinished and unheated attics are cold in winter because the heat transfered through the ceiling of the second story rapidly passes to the outside through the roof. This same attic is unbearably hot in summer because the heat of the sun is rapidly transmitted through the roof to the outside.

The insulation of the roof is a simple matter. Either flexible, semi-flexible or the rigid board types are suitable and are those generally used, although loose or fill material may also be used. The flexible sheets may be tacked in between the rafters or, as is more usually done, stretched over and tacked to them. If the attic space is to be finished, furring strips are nailed over the sheets and plaster lath in turn is nailed to the furring strips. Any of the rigid board types may be used instead of lath and plaster and any of them afford a satisfactory finish when painted. They are easy to handle and when used alone are nailed directly to the underside of the rafters. Paint or plaster may then be applied directly on the boards. When loose materials are used, boards or lath should be nailed to the rafters, starting at the lowest level. The space formed between the rafters, roof boards, applied boards or lath, is filled with the loose insulating material as the work progresses upward.

The insulating of the attic floor may be handled in several ways. Rigid board sheets may be laid over the existing floor and then covered with a finished wood floor, linoleum or other suitable flooring material. Flexible or semi-flexible sheets may also be used as a lining between the rough and finished floor. These will probably require the the use of wooden strips or 'sleepers' to form a solid nailing for the finished wood floor. Loose materials can also be used and are especially desirable where a new finished floor is not wanted. The loose materials are packed into the space formed by the lath and plaster ceiling of the floor below and the attic floor. The insulator is introduced by removing every fourth or fifth board of the attic floor, being, of course, relaid after insulation is in place.

Especial care should be taken secure tight joints, particularly at angles between floor and roof, and tween ceiling and roof or peak. correctly applied insulation will to large measure defeat its purpose.

The floor of a room built over an o porch may present a more diffic problem. Individual conditions m determine the most economical meth of securing the desired results. Eit insulation must be applied over existing floor and a new floor laid o it, or the porch ceiling must be cove and a new ceiling added. Again c should be exercised to obtain tight joi particularly around the outside edg

Floors built over unexcavated ar can be insulated by applying flexible semi-flexible sheets or rigid board ma rials to the underside of the floor joi

Damp basements are often erro ously attributed to water seeping thro the walls whereas this annoying c dition may be due to the condensat of warm moist air on the much co walls in exactly the same way that c water pipes 'sweat' during the summ Where dampness in the basement be traced to this cause, the condition be corrected by furring the outside w with one or two-inch wood strips covering these strips with any of insulating boards.

The question often arises as whether the first floor joists should covered in the basement. This proced is effective in preventing the siftin dirt and dust through the first fl On the other hand, the basemen winter is usually very warm and as in keeping the floor above comforta

If second story rooms are diffi to heat, the insulation of the roof attic will probably correct the diffic without necessitating changes in heating system. If the floor of on the rooms is cold determine whether due to the room being built over an c porch or unexcavated area. If insula does not correct the situation, en the porch or, in the case of an excavated area, endeavor to secure or more large openings connected the basement to obtain a circulatio warm air. The dividend from insula added to the house already built, be found in reduced fuel bills and creased comfort.

Digging Ditches by Dynamite

WHERE it is necessary to drain land in the spring the back-work of digging the larger open ditches may be avoided by using dynamite instead of a spade. The smallest practicable ditch which can be dug with dynamite is four feet deep and four feet wide at the top. The New York State College of Agriculture at Ithaca outlines a few of the steps in the two methods of blasting ditches, by 'propagation' and by electricity.

In the propagation method, as many holes as are needed are loaded with dynamite. The holes should, of course, make a line where the ditch is to run. Only the central hole is primed, and when this is fired the shock communicates through the soil from one charge to the next, and fires each successive hole. This method can be used only in wet soils, as not enough of the sho communicated through a dry soil.

In the electric method, each ho primed with an electric blasting cap caps are connected in a circuit, an fired with an electric blasting mac

Straight nitro-glycerine dyna of 50 or 60 per cent strength, is be ditching by the propagation me though in the electrical method per cent. low-freezing ammoni gelatin dynamite may be used.

Ordinary care in regard to f necessary. Ditches can be blasted a single line of holes two feet deep spaced about twenty inches apart, a muck soil or a heavy clay. For a ditch, four-foot holes eighteen or tw four inches apart will give a dep about three and one-half to four and a top width of eight feet.

PLACE CHARM WITH
RNACE-LIKE HEAT

n-air outlets and cold-air intakes of the Heat-y become an interesting part of the design of ce, or may be concealed in the sides.

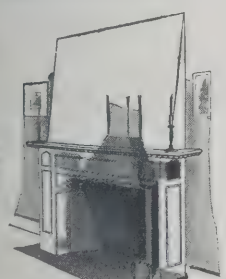
REPLACE
UCCESS
H DOUBLE HEAT
ARANTEED

PLACES built or remodeled with "Heatilator" are guaranteed to rfect, smokeless operation—and eat from the same fuel. The Heat-s a scientifically designed metal ith double walls, forming a heat-mber over and around the fire. ir comes into this chamber, is and delivered into the room. . . eat that is ordinarily wasted in r chimney—equal to that of a register—floods the room with nd comfort.

new low price the Heatilator vir-osts nothing. It saves enough in l, labor and fuel to cover all ex-

rantee complete satisfaction or the se price back with an extra allow-cover the cost of removal and in case of dissatisfaction.

Left: Heatilator ready to install. A complete unit up to chimney flue—no assembling necessary. *Below:* Phantom view of Heatilator installed.



free book-g full par-with many ions and r Modern laces.

itor Co. use, N.Y.

eatilator
replace Unit

ATOR CO., 733 Glen Avenue, Sta., Syracuse, N. Y.

se send a free copy of the new Heati-or "Planbook of Modern Fireplaces."
may want to install ..... Heatilators
or about (date) .....
lease state in margin whether house, artment, or camp, new or remodeled, d name of architect and dealer.)

.....

.....

YOU MAY *think* your floors look good enough but that's only because you've become accustomed to their dinginess. If you want to see them as others do, merely refinish a small spot under a rug, and compare the old surface with the new. The difference is usually amazing. Only then do you realize how much your home is handicapped by your floors—how much more attractive it could be if only those floors could be improved. They can be. With the Ponsell you improve them yourself—easily.

SCRAPE and REFINISH YOUR FLOORS yourself

This little electric machine does all the heavy work—scrapes, sandpapers, refinishes—then keeps your floors in perfect condition forever after—costs but a fraction of *one* refinishing job.

LOOK at your floors. Are you satisfied with them? Completely satisfied? Proud of them?

You could be. You could make them ten times lovelier. You could make them envied by every neighbor—admired by every visitor. Within a day you could transform them—quickly change them from dingy surfaces, luckily covered up for the most part by rugs, to gleaming, spotless places of which you hate to hide a single inch.

"Oh no!" say, "Not my floors!" Oh yes, we answer, *your* floors, ANY floors. The most neglected floors have possibilities. Layer upon layer of old shellac and varnish may disfigure them. Year upon year of ground-in dirt may seemingly defy removal. Yet underneath there is the clean and honest wood—the hidden warmth and color of the grain.

"But, the expense?" you say. "I've had them give me estimates. What about the hundreds of dollars refinishing will cost me?" This advertisement offers you a way to overcome that difficulty. It calls your attention to the most remarkable machine ever made for household use—a machine that refinishes floors, scrubs floors, polishes floors—a machine that costs but a fraction of what you usually pay for *one* refinishing job. With it you yourself refinish floors with ease. The apparently impossible job of taking off shellac or varnish becomes absurdly easy. The manifestly back-breaking jobs of sand-papering and rubbing in new wax turns out to be a matter of merely guiding a machine.

And this refinishing only needs to be done *once!* The floor never has to be refinished again! Afterward a little waxing and polishing with the machine once in a while—an operation so simple that a child can master it—*keeps* your floors looking as though they had been refinished the day before.

This is not mere enthusiasm. The claims we make can easily be demonstrated. In twenty-four branch offices we have men ready and anxious to show you, *in your own home*, what the Ponsell Floor Machine can do. In thousands of homes it has already won the unqualified praise of users. It not only refinishes and polishes wood floors, but scrubs linoleum floors spotlessly clean without the least splashing.

It does away with all the drudgery. Gone is the stooping and kneeling, the wear and tear on your hands of water, soap, cleaning fluids, scrubbing brushes and wet rags. Then the machine polishes the linoleum with a result far surpassing anything you have ever known; a shiny, immaculate surface that dust and dirt have a hard time sticking to.

Just what the Ponsell Floor Machine does, and how it does it, is a fascinating story. It is a story that every home-owner should read. We offer you an interesting booklet that contains it—a clear, brightly-told description interlarded with explanatory pictures. With your eyes on your floors, can you say, "No, I am not interested"? Take the first step toward more beautiful rooms. Mail the coupon or write a letter for further information on how to refinish your floors *yourself*. Ask us for a FREE demonstration—or, if you are too far from our nearest office, a ten-day FREE trial.

Ponseli Floor Machine Co.
Dept. G.H.B.-4R
220-230 West 19th St., New York City

Please mail me complete information and prices regarding your Electric Floor Machine. This does not obligate me in any way whatever.

Name .....

Address .....

City ..... State .....

GHB-4R28

COVERT
DAMPER

BE
MODERN

THERE was a time, not many generations ago, when the builder of houses knew little of scientific chimney and fireplace construction. He relied upon a huge vent to carry off the smoke. Although the fireplace was the sole source of warmth, much heat naturally was lost up the chimney. Modern homes are not built with the old-fashioned, big chimneys, and yet we cannot afford to have draperies, upholstery and rugs ruined by sooty smoke. This fortunately can be easily eliminated. You can do away with a smoky fireplace forever, and enjoy your cozy blaze on the cool spring nights without apologizing to your guests for the "fearful smoke".

When you build your home—be modern—be assured of the proper functioning of your fireplace by installing a scientifically designed Covert Damper and Covert Smoke Chamber.

For your convenience we attach a coupon. Mail it to us and we shall be pleased to send you our complete book, "The Covert System of Fireplace Construction".

The H. W. Covert Co.
243 E. 44th St., New York City
Gentlemen:—I intend building a home this spring and would appreciate your booklet on the Covert System.

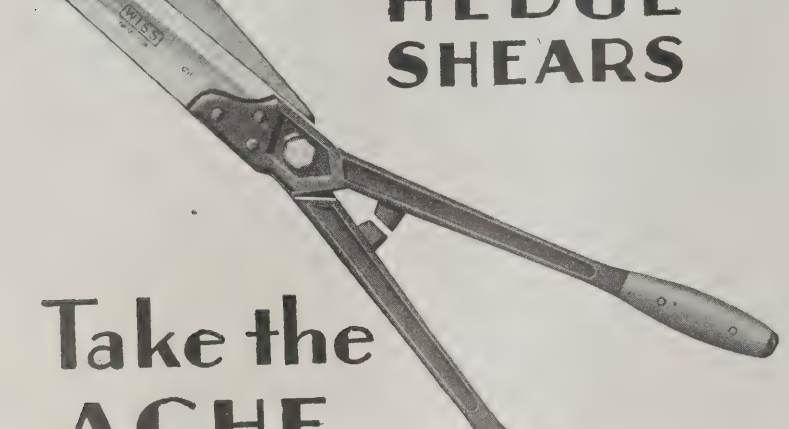
Name .....

Street .....

City .....

COVERT

Marvelous New WISS HEDGE SHEARS



Take the ACHE out of hedge cutting

HERE is a pair of hedge shears that will cut faster, with less effort than any other hedge shear ever made.

If you have ever had ten minutes' experience with the old type of hedge shears you know that their spasmodic "chop" "chop" gives your arms a terrible shock every time you jerk the handles together.

The new Wiss Hedge Shears end all that. The blades cut with little effort on your part — a steady, deliberate cutting movement that conserves your strength and ends nerve strain.

There are no slipping twigs — no branches that "push out" or catch in blades. The serrated or saw tooth lower blade holds twigs and branches, while the knife edge of the upper blade cuts them clean. Think what it means to you, to work with shears that are *sure cutters*.

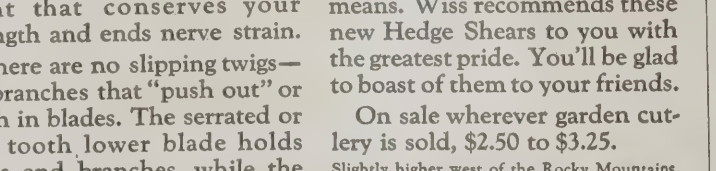
Moreover, the sharpening problem is solved. You can keep the blade in perfect form as easily as your knife.

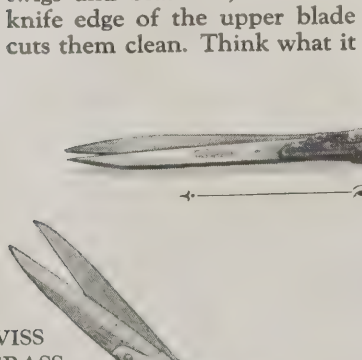
Extra strong forged steel handles give *perfect balance*. Most of the weight lies close to your body instead of out on the blades. Finely turned handles that fit your grip. Strength at the bolt that has never been equalled. No fear of strain.

You know what the Wiss name means. Wiss recommends these new Hedge Shears to you with the greatest pride. You'll be glad to boast of them to your friends.

On sale wherever garden cutlery is sold, $2.50 to $3.25.

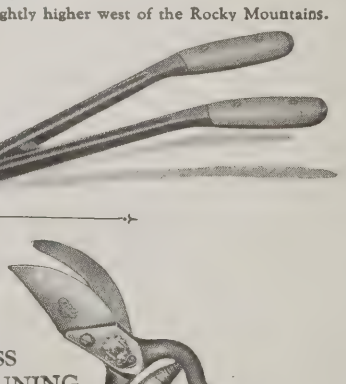
Slightly higher west of the Rocky Mountains.





WISS GRASS SHEARS

Comfortable handles that don't tire the hand. Cut easily like fine scissors. Hold adjustment and remain sharp a long time. $1.50



WISS PRUNING SHEARS

Strongly built for heavy duty. Cut easier, last longer than ordinary shears. Seven sizes and patterns. $1.50 to $4.25

J. WISS & SONS CO. NEWARK, N.J.

Eliminating the Eternal Plumbing Job

Continued from page 152

where the water contains impurities that are destructive to one or to the other. The local authorities must decide, then.

As a general thing, 30 per cent. of the cost of a job of residence plumbing will be for pipe and fittings, 35 per cent. for fixtures, and 35 per cent. for labor. Pipe is thus but part of the 30 per cent. item, and the total cost will be so little increased by the extra expense of wrought iron or of brass over steel that it should not be considered. As a guide to this point, it may be considered that the cost of wrought iron pipe is about twice that of steel, and that brass pipe costs about twice as much as wrought iron.

Economy in the installation of a plumbing system is not so much a question of quality as of planning. For lowest cost, fixtures should be so placed in relation to each other and to the connections in the cellar that the piping will be short and straight.

This was brought out in a proposed floor plan calling for a bathroom at each end of the bedroom floor, and kitchen fixtures in the center of the back wall of the floor below. To carry this out would have required three widely separated sets of pipes rising from the cellar, and complicated connections joining them to the water inlet and to the sewer. The bids on the work received from plumbing contractors were entirely out of proportion to the value of the house, and the owner was in despair until it was pointed out to him that by rearranging the bedroom floor plan to bring the bathrooms back to back over the kitchen, all the fixtures could served by a single set of pipes and w simple connections in the cellar. T bids on the revised plans were less th half of those for the original layout, a by the absence of horizontal pipes a complication the chances for trou were greatly reduced.

Another phase in the securing economy in the installation of plumb became clear in an examination of t houses of about the same value a general style, one the work of a car architect for owner occupancy, and other having been built for sale with other guide than an elevation and fl plans. In the case of the former framing plan—the layout of the fra work—had been made with the plu ing in mind, and space for the pipes been provided in walls and floors. meant slightly more carpenter work; this was far more than covered by resulting simplicity of installation.

The other house had been fra without regard to the plumbing, there were few places where pipe co be laid without cutting into the timb Work was not only delayed by necessity for boring holes through f beams and other parts for the pi but in some places this so greatly w ened the frame that it needed spe bracing.

A comparison of the building cos these two showed that through skill foresight in the plumbing installa alone the architect had effected a sa that covered a large part of his fee

Gladiolus Aristocrats for Everyman's Garde

Continued from page 153

PALE VIOLET. A mallow pink with plume blotches of rhodamine purple and 7 open may be had in Seabrook Gem (Rowe). Casa Verdugo (Shelley) is of the type that would make an Australian exhibitor's heart glow with pride. It is tall, has 8 open blossoms and is a splendid lavender blotched phlox purple. A delicately colored one of great charm is Undine (Dotenhurst Flower Fields) which gives tall spikes having 8 open, the flowers being pale amaranth pink with a white throat.

VIOLET. Kalamazoo (Vaughan) produces massive spikes of rhodamine purple blossoms having throats of lemon yellow lined with the main color and 7 open. Kirchhoff's Violet is now very popular, a pleroma violet blotched cotinga purple showing 7 open. Manzanita (Metzner) has a new color effect, ontario violet overlaid with pleroma violet with its throat shaded amaranth purple, having 5 to 7 open.

ROSE PINK. Laurain (Childs) with 6 to 8 open, is a cameo pink with wire edge of rose pink and blotched rose color. Apple Blossom (Kirchhoff) is pinkish white throat blending to apple blossom pink (light rose pink) on the frilled edges, with 7 open. Llewellyn (Salbach) is ruffled, has 6 or more open and is rose pink with a soft cream throat.

ROSE. Marjory Smith (Chriswell) is rose red to edges of tyrian rose blotched red which is shaded maroon; a long massive spike with 8 open. West Virginia (Rooney) also has 8 open, and is rose color flushed rose red; throat baryta yellow dusted rose red. La Rose (Bill), a self of deep tyrian rose, a fine one, has 6 to 8 open.

PURPLE. Pure Mauve (J. C. G man). This is true purple with m and throat of bordeaux; 6 open. (Kirchhoff) is a self color with 8 a velvety amaranth purple. Joh Peabody (Metzner) is a lighter o mallow purple tinged with rhod and throat of baryta yellow d rhodamine purple; 6 open.

WHITE. Joerg's White is not large, but gives fine spikes with 7 snow white with base of lower e petal creamy veined pallid rose Vaughan's White has 6 open, is large, and a white to cream white which is dusted light mallow p Mrs. Kr. Prestgard (Decorah Gla Gardens) is white with cream medials on lower petals; 5 to 7

ANY OTHER COLOR. These are t and smoky shades that do not fit other families. Chameleon (B changeable silk coloring is a bl lilac, purple, violet and orange open. Smoky (Hutt) with 6 oper near pure mahogany as any now field. Granada (Metzner) has 8 and is eugenia red blended dark granate purple; throat sulphur dotted pomegranate purple.

PICOTEE. These are not provi in the color classification, yet n should be made of them here. Thi standing ones are Pennant (Mea cream white edged with rose d open; Juliana (Spencer) in st yellow edged and tipped peach d open; and Wingold (Spencer) in n yellow edged with scarlet, 10 o three producing tall, many spikes, and they belong to th type, the Primulinus Grandiflor

Side and end matched to perfection—Maple makes a one-piece floor of lasting beauty.

Choose any color

IN the newest homes you see them . . . Northern Hard Maple floors in cool green—warm, mellow brown—restful blue—rich, rare ebony. It is the new vogue in flooring.

Choose any colors you wish. With fadeless, transparent penetrating stains recently developed, which you or anyone can easily apply, it is now possible to produce permanent colors of your choice in Northern Hard Maple Flooring.

By this staining process, Maple, long known to be the smoothest, most resilient and most enduring of all the better flooring materials, develops a distinctive type of beauty never before seen in any floors. And completes color harmony.

Our book, "The New Color Enchantment in Hard Maple Floors," shows page after page of interiors pictured in full colors. Let us send you a complimentary copy.

MAPLE FLOORING MANUFACTURERS ASSN.
1765 McCormick Bldg.
Chicago

Guaranteed Floorings

The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use. **MFMA**

A delight to the eye—this Maple floor in Pastel Green!

Picture an Orchid floor in one of your rooms!

Standard finishes shown, made only by the Marietta Paint & Color Co., Marietta, Ohio.

MFMA No. 103—Autumn Brown

MFMA No. 102—Spanish Brown

MFMA No. 104—Silver Gray

MFMA No. 106—Royal Blue

MFMA No. 101—Early American

MFMA No. 105—Dove Gray

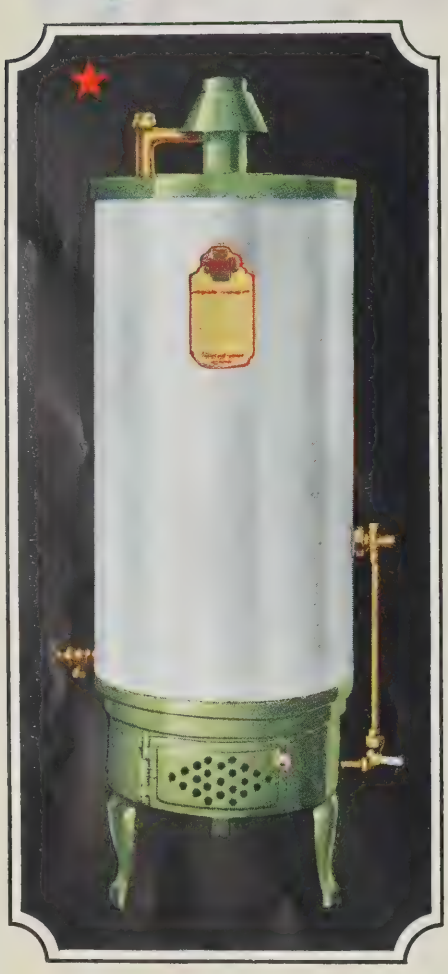
MFMA No. 107—Pastel Green

MFMA No. 108—Orchid

Floor *with* Maple

NEW Ideal "Hotcoil" Gas Water Heater

With Beautiful Porcelain Enamel Top and Base This is the Lowest Priced, Completely Equipped Automatic Storage Heater on the Market



THE new Ideal "Hotcoil" Gas Water Heater unites the advantages of all other types of water heaters.

It gives you abundant hot water supply, day or night, on the turn of a faucet, and operates with the highest degree of economy attainable for practical service. The Heater is completely equipped with automatic regulation and all accessories.

And it is as beautiful as it is efficient. Top and base are finished in deep green porcelain enamel—the jacket in French pearl grey baked enamel. The beauty of the Heater is virtually everlasting.

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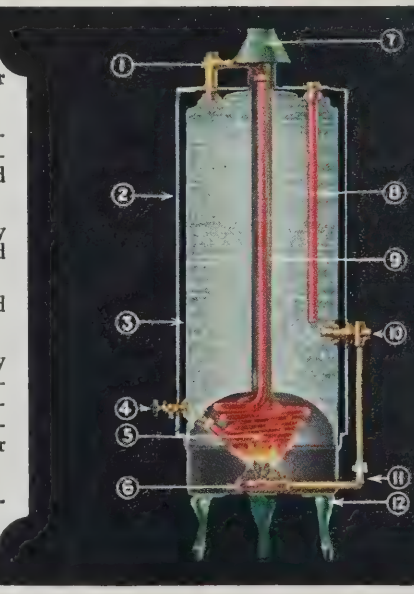

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2. Non-destructible metal jacket with beautiful pearl grey baked enamel finish.
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4. Conveniently located brass drain cock.
5. Large bore, heavy gauge, one-piece copper coil heating element, insuring immediate hot water recovery.
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10. New Arco metallic bellows, quick-acting automatic regulator.
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12. Substantial base and legs with porcelain enamel finish.

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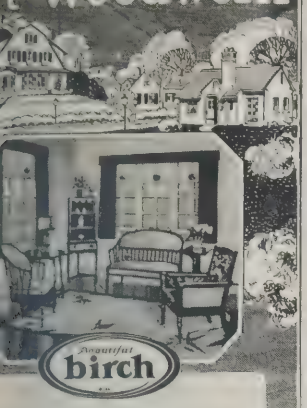

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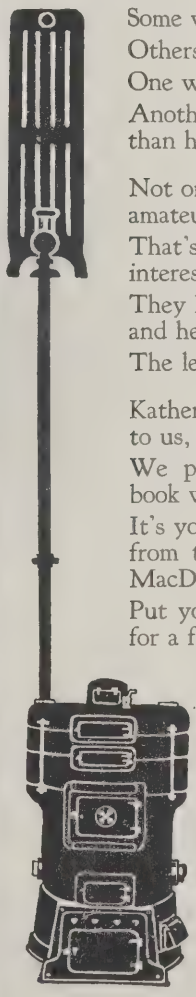
Six letters about heating contentments came to Katherine and Ned MacDowell.

Came when they were planning their new home.

Six unasked for letters.

This is how it happened.

When word got about among their friends that they were building, they who were relatives and one who was not, wrote immediately about the kind of heat to surely have.



Some were boasting letters.

Others warning ones.

One was amusingly serious.

Another so amusing, it was a good bit more than half serious.

Not one of the writers was a professional,—amateurs every one.

That's why their viewpoints are so intensely interesting.

They had found out how to have fuel thrift, and heat comfort.

The letters tell their individual reasons.

Katherine MacDowell loaned these six letters to us, and their answers with them.

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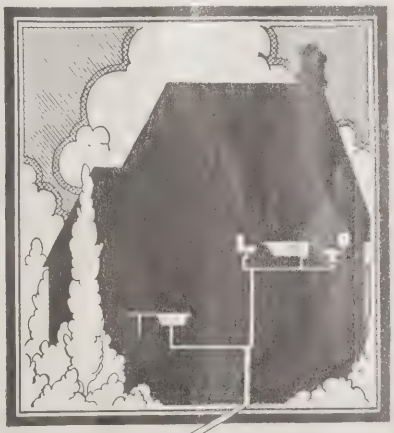

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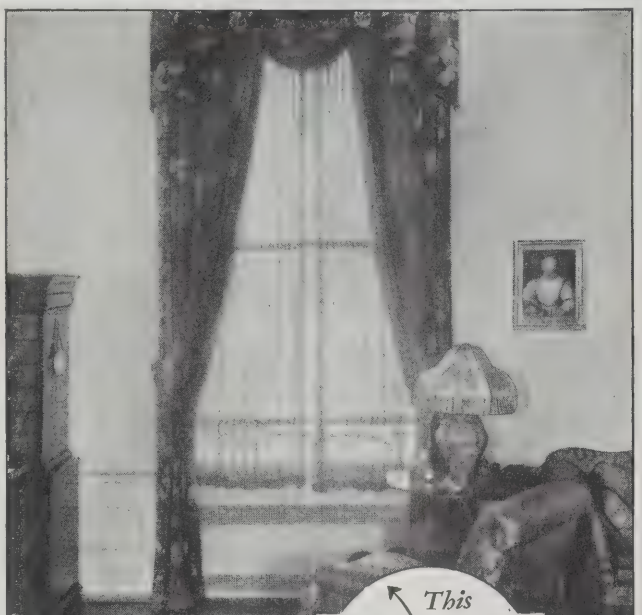
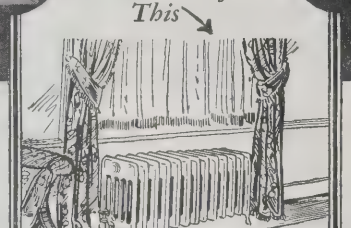


In the New York apartment of Leo Bing, Esq.

↖ This Instead of This ↗



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Radiators Out-Of-Sight
Radiators Out-Of-The-Way

YOU, yourself, have found out the problem it is to decorate a room heated by old fashioned radiators. Whether you ignored them or glorified them with magnificent enclosures, they were still there in the way. Wherever comfort, convenience, and beauty are important, Robras 20-20 out-of-the-way, in-the-wall radiators are being used.

They are made of brass and designed to be concealed. They lose none of their efficiency when they are concealed. They fit in any standard studding. That is, you know, the space between the inner and outer walls.

Only two inconspicuous grilles set flush with the wall, betray the source of the bountiful warmth. One of the grilles is immediately beneath the window sill. The other is just above the floor. The grilles can be as simple or as elaborate as the owner and architect wish.

These radiators can be used with steam, hot water or vapor systems. As they are made of brass, they never need painting or require any other upkeep.

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Send me full details about the ROBRAS 20-20

G. H. B. 4-28

Name

Address

An original painting for children by Lauren Ford which appeals to children because it is full of life. (The Children's Center)

Furnishing the Playroom

Continued from page 148

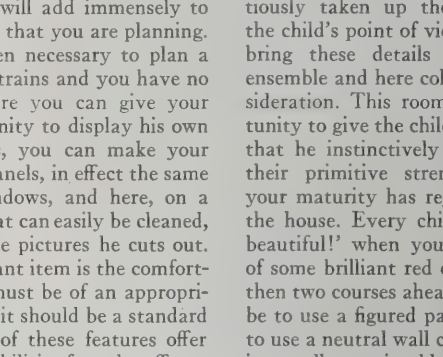
to permit him to spread out his papers, pencils, and elbows at liberty. For this purpose, a trestle table is most beautifully suited—several children can work together at such a table and they enjoy the comparison of work that ensues. Again, pine or maple has been found most suitable for this table, as well as for all the furniture to be used in a playroom.

If your playroom is to be the home of a boy, it must contain a carpenter's bench. This is a piece of furniture which cannot be made to fall into the general color scheme nor harmonize with the picture you have begun to develop, but this difficulty can be overcome by the use of a low screen. A screen always offers a decorative opportunity and you will find that it will add immensely to any color scheme that you are planning. If it has not been necessary to plan a shelf for electric trains and you have no other space where you can give your child an opportunity to display his own taste in pictures, you can make your screen of small panels, in effect the same as casement windows, and here, on a glazed surface that can easily be cleaned, he may paste the pictures he cuts out.

A very important item is the comfortable chair, this must be of an appropriate size and near it should be a standard lamp, and both of these features offer tremendous possibilities for color effects. If you have more books than can be contained in the shelves of the secretary desk or dresser, you can make use of a small bookcase. The subtle charm of this reading corner will win a child to spend many hours with his books. To bring a sense of utter comfort, there is nothing like a sofa.

There must be something u in the habit of spreading out on t Children of all ages resort to t for many of their favorite occu You have never seen a child on mas morning seek out a table down comfortably to work ou construction with his erector s can have a matting made that w ply him with a comfortable p spend much of his time when that the floor is essential to his This can be made about two thick, two feet six inches wide a to four and a half feet long. Co some strong color you will feel it rather than detracts from, your effect.

Now that you have most c tiously taken up the playroo the child's point of view you ca bring these details into a b ensemble and here color is the f sideration. This room offers an tunity to give the child the stron that he instinctively craves—c their primitive strength—colo your maturity has rejected thr the house. Every child exclaim beautiful!' when you unfold a of some brilliant red or blue. Y then two courses ahead of you— be to use a figured paper and t to use a neutral wall covering. is equally serviceable, as your paper will not show the inevitab and sanitas or a hard paint c be washed. Your decision ca fluenced by the kind of furnit you are going to use. Maple or look best against an Early figured paper, whereas if you collection of (*continued on p*



A desk is probably a child's most loved piece of furniture, and should be part of the fittings of every playroom. (The Children's Center)

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These glorious flowers express the greatest strides towards "Perfection" recently attained by famous English Growers.

We are offering strong *pot-grown plants* for April delivery, that will produce giant 4 to 6 foot flower spikes this year, right up to frost. These hybrids cover the complete range of colors known to Delphiniums.

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"Certified Dahlias"

known to all professional gardeners and recommended to all the amateurs.

Write for special list

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A Practical, Proven Cultivator for Gardeners, Suburbanites, Large Estates, Berry and Fruit Growers, Florists, Truckers, Nurserymen, Parks, and Poultrymen — Simple, compact, easily handled and powerful.

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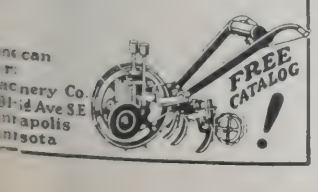

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"YOU can not put an old head on young shoulders." During the happy, carefree days of childhood, let your children have the protection of Page Chain Link Fence. One owner writes: "I have watched them playing ball; sometimes it goes in the street but they can no longer dash madly after it; they have to stop to go through the gate and they wait until the street is clear of traffic. I would not be without Page protection for my children."

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"It costs so little for our hot water now!"

Made in two sizes for domestic use.

BURNING the cheaper grades of fuel, the cost of 24 hour hot water service furnished by the National Heater is scarcely noticeable. It is the ideal hotwater supply all year 'round and especially during the summer when the furnace is out. Heavy double wound multi-flow coil of pure copper lasts many years. Easily installed.

Write for complete description

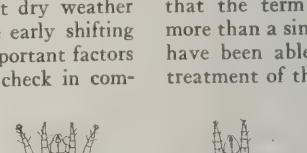
NATIONAL
MULTI-FLOW TANK HEATER
THE NATIONAL PIPE BENDING CO.
200 River St., New Haven, Conn.
Boston New York Philadelphia

What Is This 'Blacks' Disease of Larkspur

Continued from page 147

Leaf 40 to two gallons water applied with sprayer) about the base of the plant and upon the growing tips was an effective control. Seriously infested plants should be destroyed. Clean garden culture in destroying affected spikes, and in the prevention of crowding and other forms of shading are contributing factors in preventing the spread of infestation. The row system of planting, the intermittent dry weather of mid-summer, and the early shifting of plants are probably important factors in holding this pest in check in commercial plantings.

That the conditions of plant injury (stigmanose) caused by the cyclamen mite have been diagnosed as Delphinium 'blacks' seems probable since nicotine combinations recommended as controls were said to be effective. One observer (Garman 1893 and 1917) has attributed the spread of Verbena 'black rust' to this same mite and it is very probable this little pest may be associated with the spread of the Delphinium 'blacks,' especially in the worst forms of this disease. Now that this pest is known to attach the queen of our blue garden flowers, and that it survives a variety of weather conditions, it is well that gardeners keep a close watch for the effects of this mite in their Delphinium borders. The timely use of control methods may not only prevent the immediate effect of the mite but may, also, check the spread of possible correlated infections.



The mite which attacks Delphiniums (Tarsonemus pallidus Banks). Adult female, larva and adult male. Natural size less than $\frac{1}{100}$ of an inch long. Bodies pale, glistening, semi-transparent with a greenish tinge in the female and the male usually brownish. Males rather scarce. From egg to adult in a few days to two weeks or more depending upon weather conditions. Thrives in warm, damp weather; avoids bright light

It is not to be concluded that the problem of Delphinium diseases can all be laid to the destructive action of a mite. The general term 'Delphinium blacks' probably refers to a compound problem, one phase of which has been recognized and controls suggested. The black spotting of the under surfaces of the older leaves, with none of the malformations indicated in the accompanying il tration, is not a mite symptom. I probability this condition is not a attack of the Delphinium 'blacks' due to a specific fungus.

The question is often asked whe the treatment of the soil with is a means of controlling the 'bla My experience in this respect s to be rather conflicting due to the that the term 'blacks' may refe more than a single condition. So fa have been able to determine, the treatment of the soil has nothing with retarding action of the cycl mite when these present on the phinium plants. ever, it has bee practice for se years to top-dres Delphinium bor and garden pla (which include sentatives of m the popular st with lime, and stock has al had less of th spot than mo the other pla in the vicinity. the Delphi seems to prefer that is not aci to be expected liming shoul courage more vig normal growth thereby tend to about a great sistance to disea

A word of caution is probably of place concerning the spra Delphinium diseases. In visiting ings of other Delphinium growe should be taken to prevent the c coming in contact with infested because in so doing home plantin become infested when we late against our own plants. This especially true when the plants a from dew or rain. It is to be hop the accumulating knowledge of ful Delphinium culture will dispel all our anxieties; but let forget that, despite her enemies, phinium requires very little pet

Furnishing the Playroom

Continued from page 210

children's chairs and tables which you must make use of, you will bring them together in rather an effective way by use of a very strong color—lacquer in red, or sapphire blue, with here and there, a touch of gold or black.

If you have chosen a figured paper your curtains can be of a rich red or blue, edged with a narrow border of a brilliant glazed material in a contrasting color. This strength of color will satisfy your child and give him the impression of having a brilliant room. To bring your room together you can cover your upholstered wing chair with a material that is strong in color, but is somewhat softened by the use of a pattern made up of a small figure design. In this particular scheme your screen should be of a neutral color with some decoration on it such as a parrot or a ship—brings us to the question of art.

It is of great importance th child should have one work of value in his room. You may screen for this purpose and decorated by an artist. Your c thus have an intimate contact work of a contemporary artist will have a more vivid feeling art is than can be obtained in a way. Some artists have made a of painting pictures of childre

You have now only to tak matter of your floor covering. find that a mottled pattern of makes a most serviceable surfa the tragedies of spilled paint inkwells are turned into mino and no trace will be left to rec

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Color and Design, Their Use in Home Decoration is a beautifully illustrated booklet which will interest and help you. It will be sent for 25 cents. Bigelow-Hartford Carpet Company, 385 Madison Avenue, New York.

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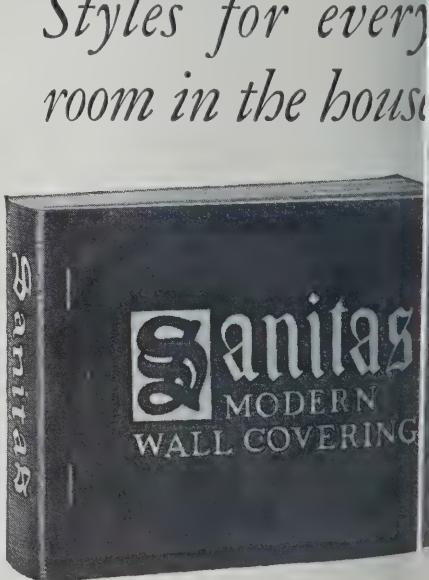

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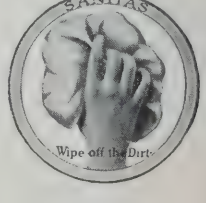

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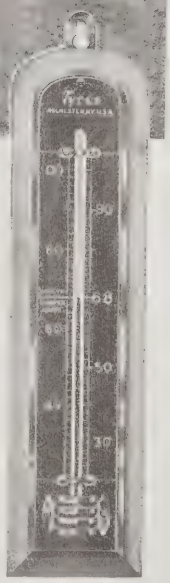

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W. A. Toole *Garry-nee-Dule*
Baraboo **Wisconsin**

Jewels for Your Rock Garden

Continued from page 151

leaves, and carries its white flowers in panicles. Lantoscana grows more compactly and crowds most of its bloom on the upper side of the arching spike. Unlike the lingulata, it seems to prefer the cooler, shadier sides of the rocks. They should both be set firmly, and broken limestone thickly mixed with the soil is a further aid to their welfare.

S. cochlearis is a true species, but so closely resembles lantoscana that the garden maker will consider them together. It has a neat habit of growth with small rosettes of silvery spoon-shaped leaves packed in a dense tuft. The pure white flowers are born gracefully in arching six-inch spikes in early summer. Lime and sun are to its liking. The tiny variety minor is quite worth while and has won numerous high sounding titles from the nurserymen, principal among them being valdensis and probyni.

S. catalauncia that comes to us from the Pyrenees is a lover of the full sun. This rare Saxifrage, with the recurved leaves of its rosettes so broadly silver margined makes a splendid picture on some rocky ledge. It is a bloomer of early summer, and the white flowers are of fair size.

Another native of the Pyrenees is so far the most striking of the encrusted section. This is Saxifraga longifolia. This makes silver-edged rosettes a foot across with a dense fox-brush spike of creamy white flowers two feet or so in height. It grows in perpendicular rock crevices and sends its flower panicle out horizontally, but it always perishes after the bloom is over. As this plant rarely produces side shoots, it is necessary to propagate by seeds. Sow these in spring in pots or pans of gritty soil with a loam base. These may be placed in a coldframe, but a little heat will cause much quicker germination. It is quite advisable to prick these off into small individual pots as soon as they are large enough to handle. If you are saving your own seed, you will be forced to protect the flower head with gauze to prevent cross fertilization with neighboring varieties.

THE MOSSY SAXIFRAGES

The Mossy Saxifrages bear a winter foliage no less vivid and beautiful than the silver rosettes of the Encrusted. These, however, are mostly woodland, sub-alpine species, and prefer a cooler and shadier exposure than do the Silver Saxifrages. They are much inclined to loose growing, even rot and decay, if their winter quarters become sodden: but otherwise they are more easily pleased than many other rock garden plants. They may be grown in an ordinary garden, but do better on a slope or a mound, and appreciate the grit and stone of the rock garden. Drainage and partial shade are their general requirements.

The hybridist in increasing the general size of these has been prone to rob them of their neat and tufted habit. While the new flowers may individually be larger, the general appearance seems rather coarse and ugly. I believe it wise to use the closely tufted kinds such as caespitosa. In S. c. hirta is a charming little plant with very hairy foliage. S. exarata, hypnoides, muscoides, trifurcata, the fragrant wallacei (camposi), and the closely allied S. globulifera are all close-tufted sorts of easy cultivation and good for general use. The n men have given us an endlessly ch list of names, and I believe it wou only to confusion to attempt to trade names. The type can usu placed from the catalogued descr Increase may be obtained by s the tufts into small pieces in ea and planting in the shade until t well rooted. Shift them to their nent places after this.

A MORAINE GROUP

The Kabshia Saxifrages are the of the family—in more ways tha They demand, as well as deserve care than do the other Sax Natives of the true alpine regions Italian and Levantine Alps, th plants of rock and shingle, snows that percolate beneath thei and rarefied atmospheres. The tolerate no suggestion of either logged or parboiled conditions, they demand light and air. Th unquestionably plants for the r and, if possible, have water flo foot or so beneath their roots the summer months. A place in moraine might be adapted to th with profit. The soil generall suited to them is made up of tw loam to one part each of sand a mold; this in turn to be mixed i proportions with stone chips, a entire mixture to be filled in ar large stones. It is well to furt these in the lee of a large bould varieties vary somewhat in the d they make upon the garden love and there are a few among them to accept the same conditions as other Saxifrages: but in general the section for the garden mak gardens for the joy of achiever well as for beauty of bloom.

S. burseriana is one of the best of them, and a splendid rock plant. This carries large bloom on short ruby-red stems, over mounds of narrow leathern, un or spinous foliage, and flowers the year. There are numer hybrids from this notably th flowered S. b. Gloria, and S. b Those crossed with S. aretioid mostly silver spines and large yellow flowers. S. Faldonside improvement of these over the lovely primrose-yellow S. boyd hybrids of burseriana and the self are better in a cool chin moraine that is not too dry. grows only in the shade of dee tain ravines and scorns the sun

S. apiculata and S. sancta good yellows, the former a M April primrose shade; the latter yellow.

S. stribrnyi and S. griseba Macedonia, S. media from the are all Saxifrages of distinct blooms in the red and purpl These are grouped with othe the name of Engleria, and s resemble the Kabschia group they are marked by tiny flo large conspicuous calyces. exception of media which cooler chink, they are mostly lovers. As with the other secti hybrids and catalogued names

The Porphyrion group are l ing alpine and high alpine r rose purple (*continued on*

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Perfect Flowers

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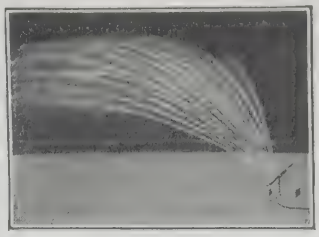

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Waters a *square*—as much as 60 x 60 ft.—3600 square ft. at a time or a small area by turning down tap. Catches the corners.

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Soilife is a dried natural humus, free from odor and weed seeds

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Freight prepaid to your station

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Check or draft to accompany order

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BEAUTIFUL FLOWER BOUNTIFUL VEGETABLE GARDENS

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PARAMUS NURSERY INC. **Ridgewood, N. J.**

Jewels for Your Rock Garden

Continued from page 216

flowers. A damp moraine, or cool open soil in which grit and leafmold and moisture are generously mixed is most to their liking. They have prostrate creeping stems which root in the soil and quickly form large mats of brown stems, clothed with tiny rosettes of deep green leaves. They bloom from spring to early summer. S. oppositifolia is the member most generally known of this group. It is a native of European Alps and a few of the highest peaks of Great Britain. Partial shade suits it, and the rosy purple flowers appear generously in early spring.

Saxifraga umbrosa, generally called London Pride, should perhaps be mentioned as it is valuable sometimes for growing under the shade of trees, though largely used for edgings in otherday gardens. S. cuneifolia, and the rose pink S. primuloides are perhaps as good as any. The majority bloom in May, though there are some fall-flowering introductions from China and Japan, the latest to bloom of which is S. fortunei. This has broad, glossy leaves, and foot-high corymbs of big white flowers in November. It prefers a sheltered nook in rich soil.

While Europe gives us a large number of our alpine Saxifrages, they are by no means confined to that source, nor even to Eurasia. We have three very charming little representatives in the mountains of our own Pacific Northwest—Saxifraga tolmiei, S. caespitosa, and S. bronchialis. However, I would not recommend S. caespitosa for the g
It is pretty on the moist mo
crags where it grows, but too
and coarse for garden beauty. S.
is much more desirable. It cov
bare rocks around timber line wit
mats of carpeting small white f
S. bronchialis has larger flower
and grows in drier places than
tolmiei and S. caespitosa, being
found embedded in moss-covered
This seems to be of easy culture
garden, though I have taken min
such great heights and moved
directly to the lowland that I hav
them either the benefit of the m
or at least a pocket of the n
nature. I believe seedlings would
general rock-garden conditions pr
the drainage was good.

In choosing Saxifrages for the
do not become discouraged by th
culty to obtain one under a pa
name. These cross fertilize and
rapidly that very few strains a
intact, and even among these, t
great variation in type. Choos
general groups, see that the ga
well drained, add a surface cove
stone chips, place sun-lovers in
and shade plants in cool nooks
them dry or moistly according t
preference, and you need have n
tation as to the thriving quali
even those classed as most d
while some of the sturdier wi
strict curbing to keep them
bounds.

Your House and Its Grounds

Continued from page 159

levelled with slate set in cement mortar before any work is placed on it.

Be sure that corners of house are well braced. This prevents rocking in the wind. Floor joists and bearing partitions should be bridged for stiffening.

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installed.

Avoid water pipes in outside
Even in the southern states th
subject to occasional freezing.

If there is no street sewer
possibility of one at a later da
cesspool should be located on th
side of the house. Care should b
that soil under cesspool is porou

Leader drywells should not
to the house. They sometimes ca
cellars.

HEATING

Having selected the type of
system desired, see that mains, b
and returns are properly suppo
permanent hangers, have a
slope either to or from the boi
are properly covered with asbes
covering. The risers to second
concealed in outside walls, sh
covered before lathing is done
should also be covered with a
System should be tested for l
filling pipes with water before pl
is started, and just prior to oc
the boiler should be fired for a c
under the supervision of th
to see that all radiators functio

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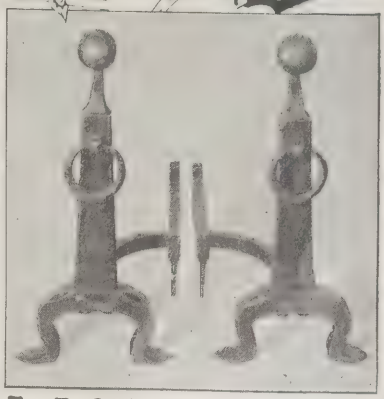

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SHOP WINDOWS OF MAYFAIR

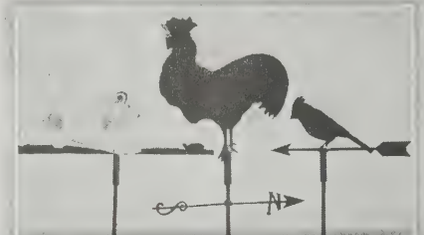
By Shirley Paine

This is your department. Please feel free to use it early and often. Each article has been chosen because of value, smartness or usefulness. Make checks payable to Shirley Paine—a separate check for each purchase, care Doubleday, Doran & Company, Inc., 244 Madison Avenue, N York. She will find anything you may wish to buy, just write She does the rest. This service is without charge.

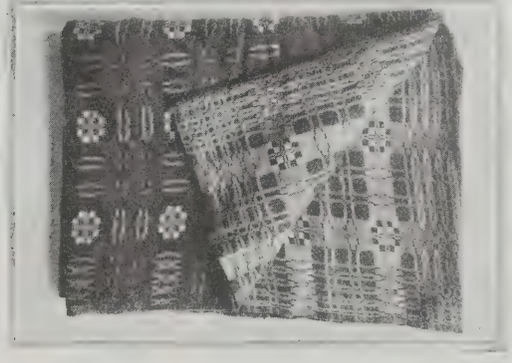
This highly efficient kitchen gadget is called the Griscer, and what it will save you in wounded knuckles and finger tips alone is worth ten times the price. Several brands of cheese now used in grated form have all the toughness of a granite cornerstone; but every cheese looks alike to the Griscer! One removable cutting unit grates, the other slices vegetables. Clamps on any table, shelf or windowsill. Price $2.25 postpaid in U. S. A.

Real French drip coffee in five minutes—rich, brown, fragrant. This French coffee biggin is the answer. Simply put in the right proportion of finely ground (not pulverized) coffee of your favorite brand, and pour boiling water over it. *No second pouring is needed.* Delectable, full-flavored coffee filters through. Choice of green or brown glaze; 4 cup size, $2.25; 6 cup, $3.25; 8 cup, $4; 10 cup, $4.75. Postage paid 100 miles; elsewhere collect

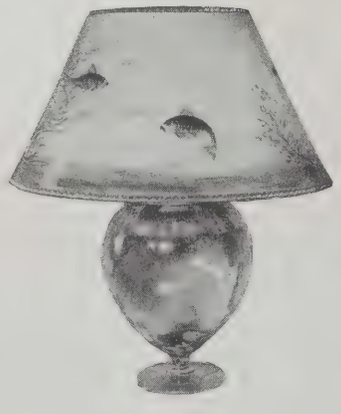
Many weathervanes are expensive, but here I have chosen three that will fit the pocketbook of all of us. They are of cast aluminum, everlasting, of ample size, and hand-painted in charming colors. The wire-haired and turtle is 18″ long by 9″ high, in natural colors, $10; the rooster is 12″ wide, and 16″ high, brightly painted, $12.50; the cardinal 13″ long, 6″ high, finished in brilliant scarlet and black, $5. Postage collect



In sooth 'tis a fine treas chest (appropriately made the North Carolina mount *by* the Treasure Chest!) fa ioned after an old pirate's chest. It is of stout oak i weathered finish with a sl tinge of green, bound with h forged iron in antique g finish. Useful for any li room or library, holds cig gloves, trinkets, what not; long, and 6″ wide and, high. Postpaid east of Mis sippi, $15.25



Of all the Colonial coverlets hand-woven in Virginia this Lover's Knot design is the most beautiful, and is not woven anywhere else. This rare old pattern originated in Scandinavia, the original red, white, and blue Lover's Knot, with four resulting shades of red, varying from pale rose to dark maroon, and yet the color of the wool is the same, the effect being obtained by the skillful blending of colors in juxtaposition. Color options: rose, Delft blue and white; rose, blue, and white. One large size only, 80 x 96; price $24.85, postage collect



This lamp combines the aquarium thought with a nicely proportioned globe base and an attractive parchment shade tinted a delicate green, and hand-painted with fish and sea-garden motifs. Even with a two bulb fixture the heat does not affect the fish in the slightest. The brass cap (out of sight under shade in photograph) is perforated to [illegible] ample air; and if properly used with shells and water plants the water need be changed only once a week. One feeds the fish through the air holes, and the cap is easily and quickly removed. The unit comes complete with bowl, shade, and single socket fixture for $25, which I can say is unusually reasonable. With double socket, $27.50. Express collect. Free delivery greater Boston

What could be more appropriate for any boy's room than these ample pillows of glazed chintz? He likes to sit on the floor, and must have durable pillows to stand the strain. The modern American boy scorns all frills; what he wants is comfort combined with interesting decorations—all of which is found in this pillow of the month, a pirate design with a bright yellow background, with red figures and green foliage, size 12″ by 19″. With silk floss filling, $9; with best white down filling, $10.25, postage collect. Free delivery Boston

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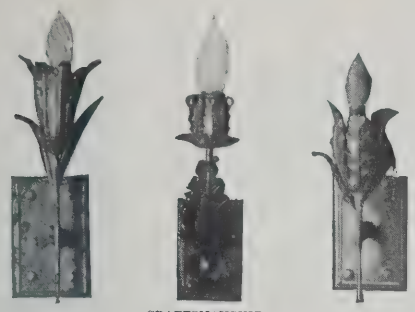

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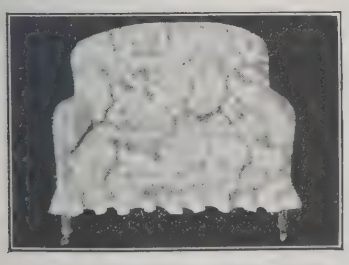

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The glassware pictured here is rock crystal, engraved, with cut stems. It includes goblets, champagne, claret, cocktail and cordial glasses; finger bowls and finger bowl plates;—priced from $55 to $75 per dozen.

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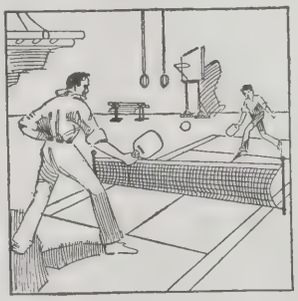

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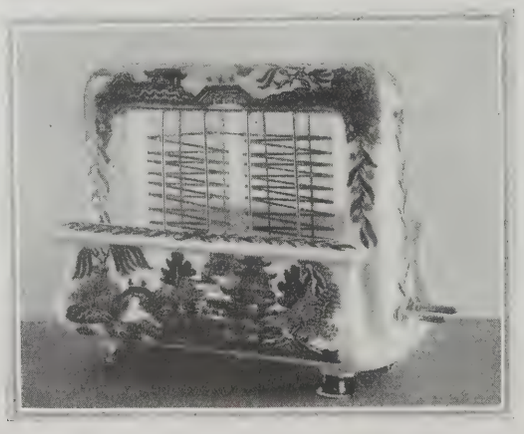
ANOTHER INTERESTING THOUGHT ON INTERIOR DECORATING

FOLLOWING my article last month on the growing tendency of intelligent women to want to become well-grounded on the subject of interior decoration, I am now offering you the catalog of a large and reputable school which has brought out a complete home study course covering every angle of the subject. Last month I offered a day school, European study course, and various others, but this school is solely for those who have neither the time nor the opportunity to attend lectures. This course has been used by hundreds who plan to take up interior decorating as a life work. I am suggesting it not alone for this but also for those who, although not intending to enter the profession, nevertheless want to know something about this fascinating subject.

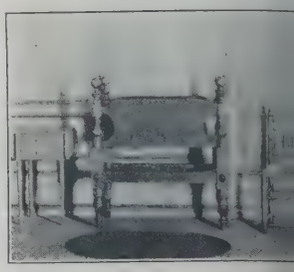
The cost for this complete course is $59.50 and, when you consider the following description you will appreciate how thoroughly it covers the subject.

There are twelve complete lessons, each contained in a separate well-bound pamphlet—printed with attractive easy-to-read type on strong, text-book paper. The illustrations and photographs scattered throughout each of the lessons are the finest obtainable, many months having been spent in their collection. Over a hundred different sources—including photographers, publishers, museums, libraries, and manufacturers of furniture, and other furnishings—were visited; and thousands of photographs were examined before selections were made. Each photograph illustrates some principle brought out in the text. *They enable you to visualize the practice of the art of interior decoration with unmistakable clearness.* Each lesson is written in clear, to-the-point language. Just write Shirley Paine for a catalog.



This new toaster is so good looking in the photograph that I will not waste time on flowery adjectives. Made of vitrified china it will stand any heat and is plenty strong enough. All metal parts are stainless steel, heating element the best, and a silk cord in matching colors. A damp cloth is all that is needed to clean it. In the famous blue Willow pattern, $9.50; free delivery 100 miles, N. Y.

Early America Reproductions



The bed, night-sta and chair are th pieces of an excelle bedroom set for eit boy or girl. They a of pine and maple beautifully finished.

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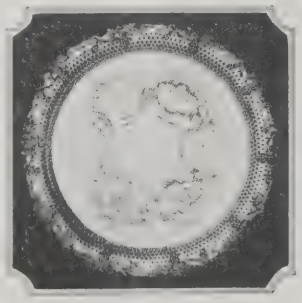
Cut and engraved glass can be either beautiful or extremely poor. For grace, proportion, and exquisite design this decanter leaves nothing to be desired. It is hand blown and hand cut, and is inspired by the masterful creations of the Renaissance period. The color is a most unusual marine blue. I have never seen anything before quite like it. Price $40 each, free delivery Boston, postage collect elsewhere. This item is for those who insist on the finest

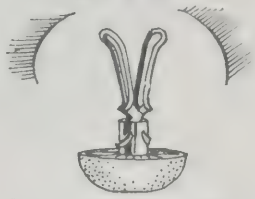
Puzzles may come and mah jong may go, but bridge is now the standard American card game. We might as well admit it and vow to play bridge, not play *at* it. After all there are only a few definite facts which, if known and followed, will show fewer cancelled checks in the bank statement each month. Endorsed by Work, Firestone, Coffin, I am passing along the Woods Short Cut to Standard Auction Bridge System to you now. Includes laws of Contract Bridge. It is $1.50

How can I emphasize the charm of this Danish sterling silver in words? Of three or four modern sources of fine silver I can show only the smaller items, and offer to have a catalog mailed to you showing the more elaborate companion pieces. The spoon at left is the blossom and seed design for nuts, $7; the bookmark is only $2.75; the thimble is most unusual, having a semi-precious stone set in the end—either carnelian, amethyst, or chrysoprase, $5.75; the opener is of exquisite design, and most timely, $5. Postpaid.

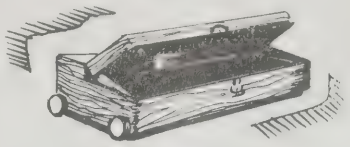
These days, when any old design is being brought out in silver plate, I have searched for something authentic. The tray, or waiter, with pierced border with grape and vine mount is a copy of an old English pattern, triple plated on copper and guaranteed for 20 years. Four sizes, 8," $15; 10", $20; 12," $25; 14", $35. Incidentally there is another tray of the same make, a faithful reproduction George III, with a finely pierced border and gadroon edge, 12" diameter, triple plated on copper, which is also guaranteed 20 years, $25; both delivered free 100 miles Boston



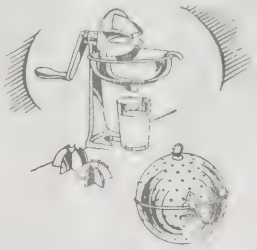
WHAT JANET GRAY SAW



The Grapefruit Corer reaches into the heart of a grapefruit and with one motion lifts the core completely out. $2.00



The Underbed Cedar Chest is on rollers, slides right under my bed. I keep furs, winter clothing, blankets and things like that, in it—they're safe from moths. Built of Tennessee red cedar, 49" long, 23½" wide and only 9" high. $19.50



My trusty Three-Fruit Reamer helps me get the family off on time in the morning. With it I prepare fruit juice for everyone, from the Big Chief down. It's of aluminum, has three reamers—for lemons, oranges and grapefruit. Hold the fruit against the proper reamer, turn the handle and out streams the juice. A strainer catches the seeds and pulp. $12.50

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Janet Gray

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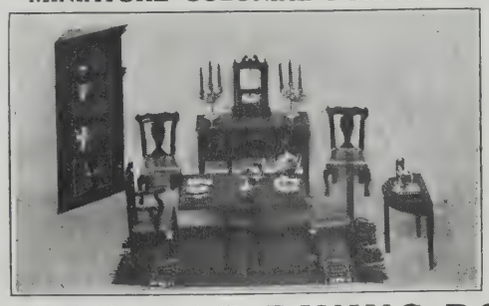

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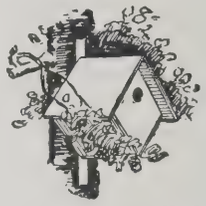

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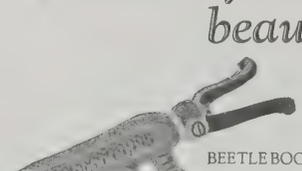

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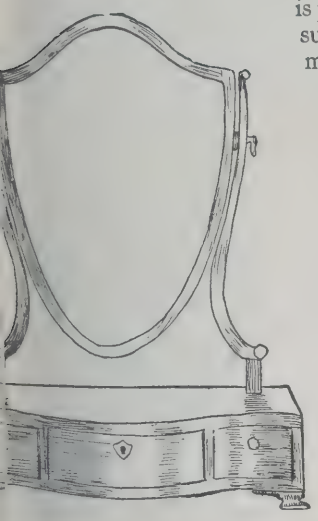

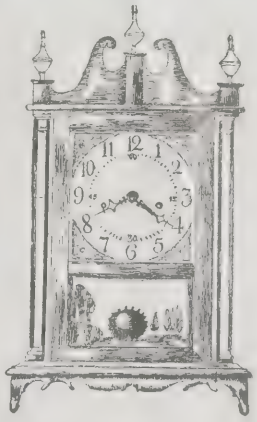

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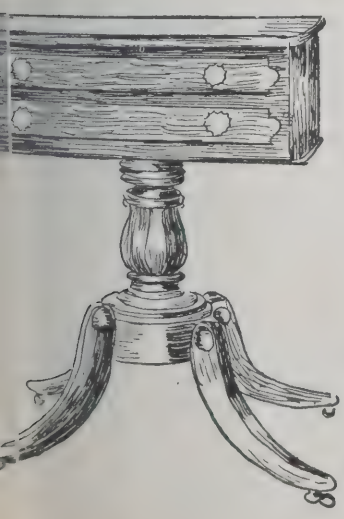

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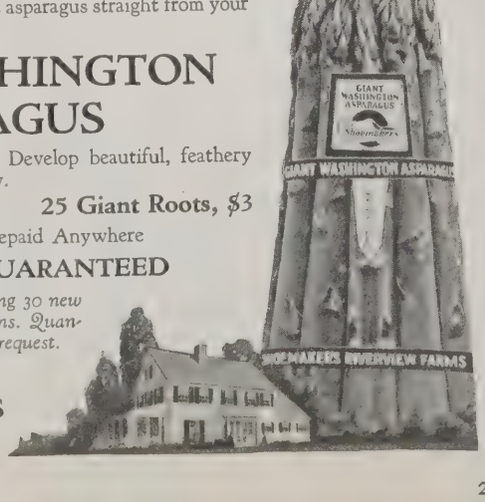

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A Bedroom Your Boy Will Like

Continued from page 163

about any plain wall surface that tempts a child to try his or her luck with pencil or crayons.

And so it is—what applies to the small child applies to the boy. A figured paper will, therefore, be found the most practical. This may be of a well covered design, such as is illustrated, which consists of a plain cream background powdered with black dots, upon which colorful nosegays are repeated. Then there are the toile patterns in rose, sepia, green or yellow. These tend to detract from the prominence of pictures hung upon them because of the interest of their own motifs, and are thus particularly desirable for the boy's wall surface, likewise the ship papers. Scenic papers showing historical subjects are equally appropriate.

In the selection of a suitable flooring for a boy's room, cork tiling will be found a most satisfactory medium for silence with great durability. It is never cold or chilly and has the necessary resilience that creates a restful, quiet floor, so important to the comfort of the house. Only occasional polishing with liquid wax is required to retain this resiliency and the freshness of its colors, which may be plain or in an unlimited variety of design. Rugs adhere readily to the surface and remain in place. In the matter of rugs, a spotted or a well covered pattern on a dark ground, such as black relieved by blue and gray, is distinctly preferable as it will not show ink that is spilled, footprints and other marks that are bound to come, although the inexpensive machine-made hooked rugs with animal subjects prove unquestionably more entertaining.

Furniture for a boy's use should be selected by the parent with the thought that its type and lines are going to make an indelible impression upon his mind and strongly influence his taste.

In the choice of wood, pine or maple in reproductions, not necessarily expensive, are to be highly recommended to withstand hard knocks and usage. This consistently introduces early Colonial pieces. The reason, can then be explained to the boy for the original use of these woods; that they were the woods most easily obtained by the early settlers and that the simple lines and crude beauty of the furniture thus made was due to the unskilled hands that created it for necessary, practical purposes. In this manner the boy links his American history with the things actually about him in his own room.

Mahogany, it can then be explained, being a foreign wood, could only be used originally by those who co ford to bring it from abroad, s the sideboards, four-posters, hig desks, etc., that were found in the of the richer colonists, where such could be cared for and polishe meaning of Provençal furniture is now available for children in ductions, can also be explaine it was made of French fruit wo how it reflected in a simplified w work of the great French c makers for the Court.

As to the most useful pieces for room, a highboy with its man drawers to hold his endless t will undoubtedly prove the fav a chest of drawers that has b vided into many drawers, as th age boy does not keep large s order. A desk is still another; least one comfortable overstuff beside a reading lamp of which used by an adult when visit room. A small dropleaf table wise to be recommended, for the top is well filled there are leaves to be raised for a special then folded down again. A st top does not admit of this and to be filled to its capacity.

In the decorative detail of t it is well to follow the predile the boy himself. For instance nautical, give him a ship mo which he may derive inspirati ship clock by which he may study hours by the ringing of For his waste basket, there m old English leather fire buc blazoned with the coat-of-arm family formerly owning it.

If he is interested in animal tures may consist of these sub as he grows older take on the of hunting prints. His door book ends can likewise be re in the form of animals such a elephant, giraffe, etc. If fond life, the paddle of his canoe is find an exalted place upon hi even his folding camp lante of use upon his night stand. tical lamp, however, an elec pewter oil burner with a linen ment shade is quite the best table. Sidewall fixtures, typify ject of boyish interest are also

In drapery materials, sun able sash curtains are to be and where it is possible use small allover pattern that for bedspreads as well, or pattern is desired, one of pic jects showing ships or depict son Crusoe, Captain Kidd o

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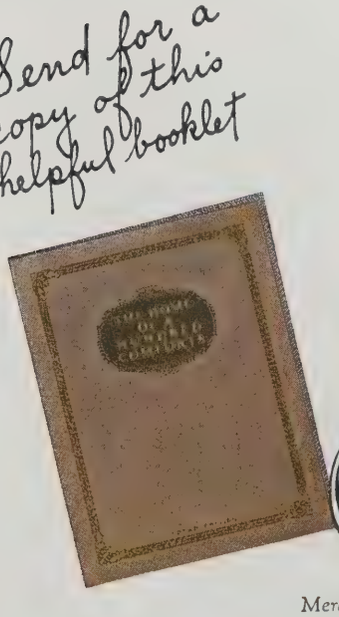

When you build a new house—or remodel an old one—consider each room as it will be when it's finished. Take your bedroom, for instance. See that you have double lights at your dressing table. See that you have an outlet for a lamp at your bedside. See that you have an outlet for a heating pad and one for a curling iron. Think about your vacuum cleaner, too. Where will you plug it in? Or where will you put your electric sewing machine?

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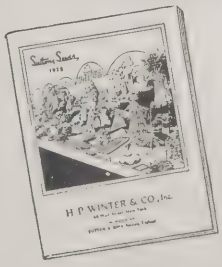

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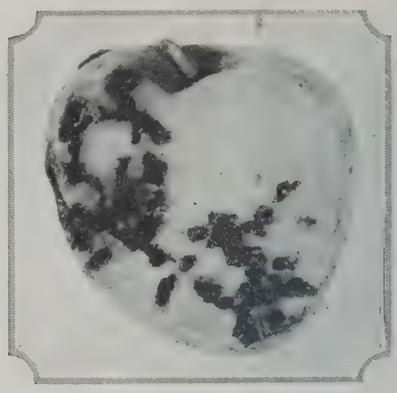

This is the kind of damage that wireworms can do to potatoes. They thrive in grass land: plant some legume for a year

Stealing a March on Garden Insects

WALTER COLLINS O'KANE

ANYONE can apply a spray to plants that insects have descended upon; or if the invaders are of the sort that do not eat the surface of leaves, one can manage, very likely, to anoint the pests themselves with a suitable chemical. The damage that is going on points the way like a sore thumb. No further hint is necessary. But how about *preventing* damage?

Well, to be candid, there are quite a number of insects that lie beyond any reasonable measures of prevention. You can't tell when they are going to appear, or in what numbers, and your advance warfare, if you undertake one, may turn out to be without a target. Or perhaps they can be fought only after they have actually arrived and have presented their shining bodies to be aimed at with a spray nozzle. Or we must wait until they had laid their eggs, or performed some other act in their special life round.

And yet, a substantial array of pests may be checkmated. A little extra care in getting rid of a certain weed, a kink in the timing of planting, forethought in the sequence of vegetables in a given plot—these can make a good deal of difference.

Spading or plowing as well as cultivating disturb a good many insects, one way or another, for there are various sorts that spend a part of their existence in the ground.

WHEN CUTWORMS WORK

Cutworms are there, except fo sneaking wanderings by night, they exercise their propensities the best and finest in the rows vegetables. Cultivation, if thoro not healthful for them. If it is panied by broadcasting an easi pared mash they can be put existence before they perform decapitation act. A pail full o and enough paris green stirred in it a slightly greenish tinge; the sweetened water to moisten it Scatter it thinly over the ground

THE UBIQUITOUS ROSE-BU

That prime pest, the rose chaf eats up the blossoms of Grapes, over ripening cherries, and spr Peonies, breeds in sandy, sod If you have a lane or other undi bit of such ground that you can and reseed you may see the ef lessened numbers of rose-bugs.

The corn ear-worm has been warpath recently. It spends on in the ground—is there all win well through spring. Spading or are distinctly harmful to its sy existence.

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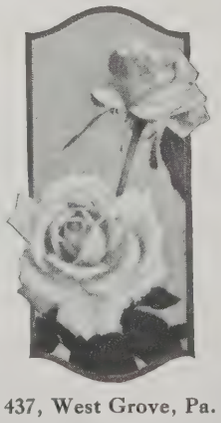

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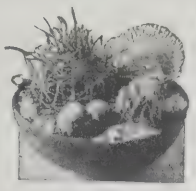

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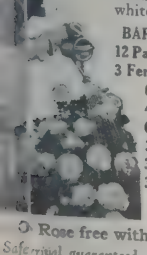

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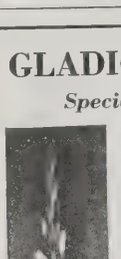

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COLONIAL FARMS
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Stirring the soil, spading or plowing are helpful ways of controling the corn ear worm, which spends one stage in the ground

Stealing a March on Garden Insects

Continued from page 232

in mid-summer, and many a potato with holes dug into its side or narrow channels bored through it, attest the fact that white grubs and wire-worms normally live in ground that is in grass. Both these pests are slow of growth. It takes them two or three years. When you turn up sod, kill the grass, deprive the white grubs or wire-worms of the food that they are there to enjoy, and provide instead some Strawberry plants —is it any wonder that trouble follows? Better plant something else for a year. Peas or any legume will do. Their flavor seems not to be appreciated.

The common stalk-borer is another nuisance that has been on hand in great numbers the last two or three seasons. Save the plants that you value by taking special care to do away with any large-stemmed weeds that have a desire to grow in the neighborhood. Burdock, for example. The stalk-borer moves from them to your Dahlias or your Corn.

EUROPEAN CORN-BORER

That European corn-borer continues to cause a lot of trouble and to threaten still more. Care as to weeds comes in here again, and with it still more care to destroy corn-stalks and stubble; fire for the former, either fire or efficient turning under for the latter. Prevention is the only recourse for this pest. There is no after-cure; no spray or other such remedial measure. For that matter, the same remark holds for the stalk-borer, mentioned in the preceding paragraph.

The borer that eats cavities in the crowns of Strawberry plants cannot be eliminated from old beds but it can be barred from new ones. Use new runners, for these are seldom, if ever, infested. Set the new bed at least a few yards from the old one—the farther the better. The beetle that is the parent of the grub cannot fly.

BORERS IN FRUIT CANES

Another grub often attacks Raspberries and Blackberries, working at the base of the canes, sometimes girdling them, sometimes tunneling in the pith. Pruning out dead canes—a job that you are supposed to do anyhow—is the one avenue by which to come at this pest. It's there until early summer.

There's a similar insect in the canes of Currants and Gooseberries, though it remains inside as a borer and doesn't come out and practice girdling. Early pruning of unthrifty canes is the remedy.

A number of insects and a good many plant diseases live through the winter or other parts of the year in fallen leaves. There is really more than neatness to recommend cleaning up the discarded débris of plants. When an early vegetable has finished its appointed task, pull up what's left and add it to a compost heap.

GRAPE LEAF-FOLDER

Even in vineyard and orchard this holds true. Fallen Grape leaves harbor the grape leaf-folder. Fallen early apples are the temporary home of the apple maggot. Rake up the one. Feed the other to the family pig, if one exists, or bury them. If that is too much labor, invite a neighbor who possesses suitable livestock to help himself, and assist him to accept your offer, if need be.

WEEDS AS HARBORS

There is sometimes a surprising relationship between the kind of stray plants that you permit to grow near your cultivated rows and the amount of trouble from insects. As striking an example as any is afforded by a bluish-green louse, the corn-root aphis. These lice are not able to shift for themselves, but depend on the ministrations of an ant. The ants are their nurses and protectors, literally seeing them through their earthly existence. Corn roots are a favorite food of the lice, but Corn isn't ready in the spring as early as the lice are awake and hungry. Certain weeds, such as Smartweed, are more promptly on the scene and suffice very well for an early-season lunch. Therefore, these weeds are a link in the chain of corn-root louse damage, and getting rid of them is a part of the control program.

CABBAGE MAGGOT

Almost every garden furnishes another example. A maggot very commonly attacks the roots of Cabbages and Cauliflower, and tunnels in Radishes and Turnips. Wild Mustard is a common weed and belongs to the same family as the others. The fly that is the parent of the maggot will lay its eggs on Wild Mustard as well as on the cultivated plants, and so this weed can serve as a nursery for the pest.

Even in the use of fertilizer we can do a handy bit at outwitting insects. This is not because the fertilizer has a directly harmful effect on the pests, but because it helps plants to grow vigorously enough to withstand attack. The difference is sometimes amazing. The same number of insects, with the same appetites, will severely stunt or kill a lot of plants not sufficiently fed or stimulated, while they will fail to make any serious impression on another lot growing lustily.

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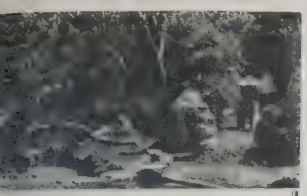

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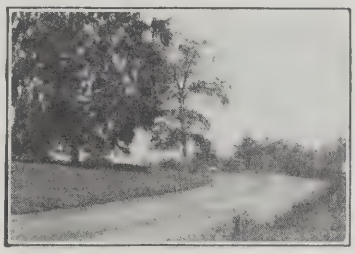

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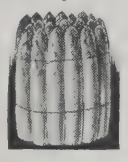

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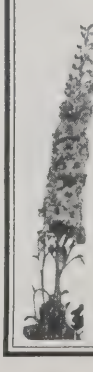

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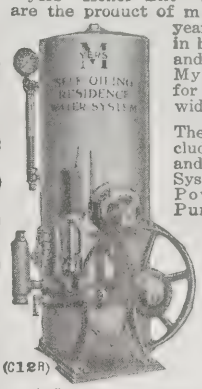

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Most soils are deficient in organic matter, which is largely decomposed vegetation. Much of the land on which we are trying to garden has suffered severely from erosion; the loose top soil, containing organic matter has been washed or blown away, leaving only the harder elements which water and wind could not dislodge. The average home owner is annually sending to the dump or giving to the garbage collector enough material to keep his lot well fertilized, if he would only make it into compost.

Begin by piling all waste material, such as lawn clippings, weeds from the garden, potato peelings, bean hulls, fruit pearings, coffee grounds, egg shells and any other dry garbage that will not become putrid. In the fall add what leaves you can get and any stable manure that might be available. As material is added to the pile, give it an occasional light coating of lime and keep it covered with fresh soil. The covering of soil is very necessary, as fresh earth absorbs all odors and the escaping gases. It is advisable to wet down the pile now and then to aid disintegration. The pile should be thoroughly chopped at least twice a year. Begin at one side an a garden hoe, pull the entire heap t for a distance of about three fe the next chopping begin at the side and pull it back to the o position.

When Oak, Beech and other wood leaves are used, complet integration requires about three but there will be a great amou compost ready for use at the the second year. The pile may be the fine pulverized material use the coarser material thrown in heap for the next year.

The leaves from Maples, Poplars, fruit trees and other softwoods ally rot so fast that they fermen with a liberal use of lime and fr chopping to prevent heating, the be made into a fairly good comp two years.

If one is working with Rhod drons, Azaleas or other eric plants, and wishes compost for landplaster or pulverized gypsum be substituted for lime and hor nure should not be used.

Compost can be used in any qu without injury to plants; its u pends upon the amount availa the supply is a generous one, it r broadcasted over the ground and in; if, however, the supply is lim can be drilled into the rows wher are to be planted or mixed wi earth for trees and shrubs. [The r gardener has at his hand a quick to the reduction of vegetable refu good garden compost by the adco, but that is another story told another time.—Ed.]

False Dragon-head (Physostegia virginiana) is a native American perennial which flourishes easily in gardens and, like all plants, appreciates proper feeding

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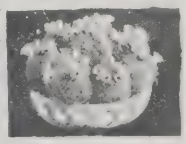

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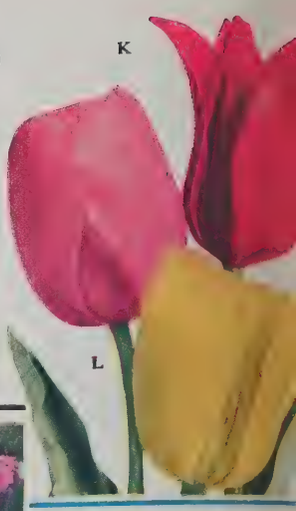

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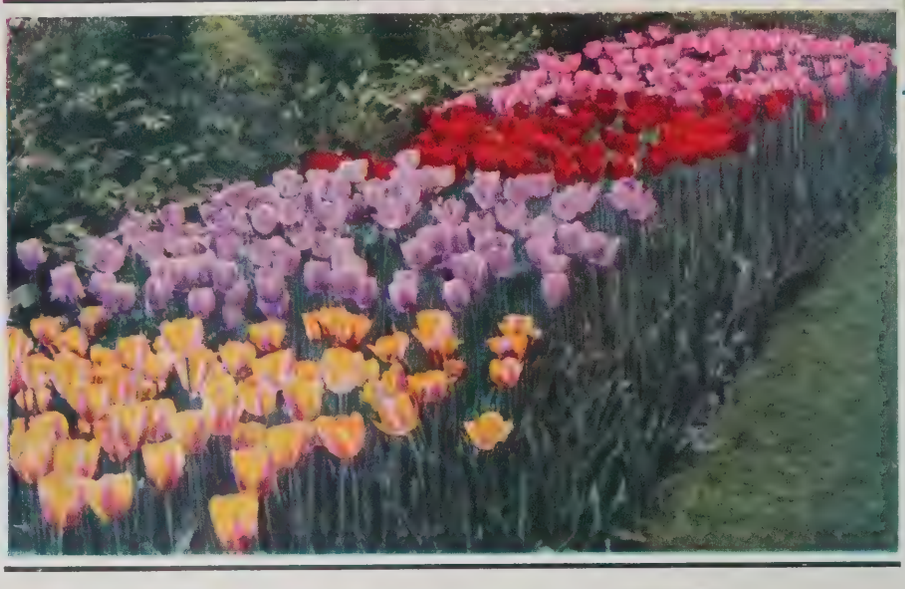

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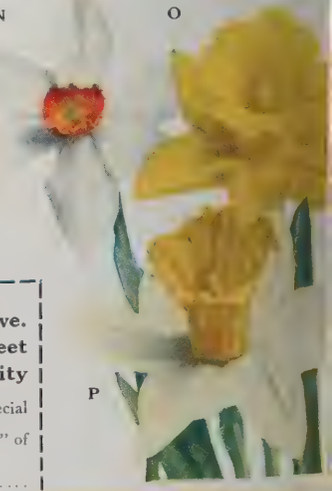

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Trumpet Narcissi

Trumpet or Crown as long or longer than the perianth. A typical flower is shown to left below.

Glory of Sassenheim. Large showy flowers, broad creamy-white perianth and bright canary-yellow trumpet, well expanded at the mouth. $1.85 per dozen, $14 per 100.

Spring Glory. Perianth pure white, large golden yellow trumpet. Fragrant. $1.95 per dozen, $15 per 100.

Emperor. Perianth deep primrose, trumpet full yellow, large flower. $1.60 per dozen, $12 per 100.

Short-Cupped and Star Narc

Cups or Crowns measure less than one-third the leng perianth.

Will Scarlet. Fiery orange-scarlet cup, elegantly perianth creamy-white and reflexing. $2.60 per $20 per 100.

Bernardino. Very large creamy-white perianth and pale cup, prettily fluted and heavily stained deep o apricot. $3.20 per dozen, $25 per 100.

Sir Watkins. Perianth sulphur, cup yellow, tinged o Equally fine for forcing, naturalizing or cutting. $1. dozen, $10 per 100.

Bicolor Trumpet Narcissus Van Waveren's Giant. One of the largest of all trumpet Daffodils.

Other Popular Favorites Fine for Naturalizing

To create effects as illustrated below, plant *quantities* of these:—

White Lady. An exquisite flower with a broad white perianth of perfect form; dainty prettily crinkled and of beautiful pale canary shade, delicately scented. $1.15 per doz per 100.

Recurvus. The old Pheasant Eye. Pure white perianth, cup deep orange-red. $1.05 per $7.50 per 100.

Mixed Narcissi. A really grand Mixture. These mixed Narcissi are all well selected consisting of many varieties. $1.10 per dozen, $7.75 per 100, $75 per 1000.

A Few Extra Choice Sorts for Connoisseurs

Here are four truly aristocratic members of the Daffodil tribe. With size and substance of flower they o refined form and great staying qualities. Every one of the quartet is a gem!

Tresserve. Huge flower with slightly campanulate canary yellow perianth and bold rich yellow trumpet large open mouth deeply flanked at brim. $3.20 per dozen, $25 per 100.

Oliver Cromwell. Large yellow trumpet with sulphur yellow perianth, very free-flowering. $3.80 per dozen, $30 per 100.

Van Waveren's Giant. One of the largest trumpet Daffodils. Perianth primrose, t bright orange-yellow with a very large mout illustration alongside. $3.80 per dozen, $30 p

King Alfred. Uniform clear rich golden yello trumpet of elegant form, deeply frilled Very tall and vigorous growers. $3.20 per $25 per 100.

Extra Rewards for *Prompt* Action

We shall be delighted to enter your order for both Narcissi and Tulips at once. Send no money (unless you wish to) in which case you may deduct 5% as cash discount. All orders for Tulips should reach us not later than August first. ***These orders will be filled in Holland with the choicest the season affords. Experts will pack them for you in ventilated containers and after that, no hands touch the bulbs until you open the bags in your garden.***

Rare varieties of Daffodils naturalized on the hillsides of "Tulipdom."

Oyster Bay, L.I., New York

TULIPS You'll be Proud to Call *Your Own*

nbergen Bulbs have back of them the skill of generations. They are grown in our r nursery under constant supervision of seasoned bulb specialists. The *exacting* itions under which our bulbs are produced have caused them to be looked upon *"Bulbs In A Class All Their Own"* by connoisseurs throughout the country. Year e year these bulbs win the majority of Blue Ribbons at the principal shows.

"Triumphs"—The Sensational Novelties that Bridge the Gap

r is a new race, bringing the stateliness and size of the late Darwin Tulips at a when the early kinds are passing out of the picture. Henceforth there need be gap" in your Tulip garden. These Triumph Tulips are exceptionally vigorous, substantial and last a long time.

Thirty-three distinctly meritorious varieties bring a great variety of colors and combinations. All are obtainable only and

EXCLUSIVELY AT ZANDBERGEN'S!

An Ideal Tulip Border for as Little as $10.00

irite comparison of this collection with selection of experts presented elsewhere in this issue. Every one of these varieties is a recognized leader in its respective color class. Planted in dozens or hundreds—these varieties are insurance against Tulip disappointments.

n Tuskin. Salmon-rose edged yellow. 70 cts. per dozen, .er 100.

i XIV. Purplish bronze. $1.35 per dozen, $10 per 100.

a. Pale heliotrope Darwin. 65 cts. per dozen, $4.50 per 100.

p. Deep rich glowing blood red. $1.60 per dozen, $12 r 00.

leof Haarlem. Rose-carmine Darwin. 60 cts. per dozen, r 100.

s. Moon. Golden yellow Cottage. 75 cts. per dozen, per 100.

Princess Elizabeth. Deep pink Darwin. 70 cts. per dozen, $5 per 100.

Clara Butt. Finest salmon-pink. 55 cts. per dozen, $3.75 per 100.

Grenadier. Red with yellow base. 70 cts. per dozen, $5 per 100.

Faust. Dark satiny purple Darwin. 95 cts. per dozen, $6.50 per 100.

Bronze Queen. Soft buff Breeder. 65 cts. per dozen, $4.50 per 100.

Prince Albert. Glowing mahogany brown. $1.15 per dozen, $8 per 100.

e prices! Bear in mind that bulbs offered represent absolutely the cream of the crop. Order before August 1st preferably at once.

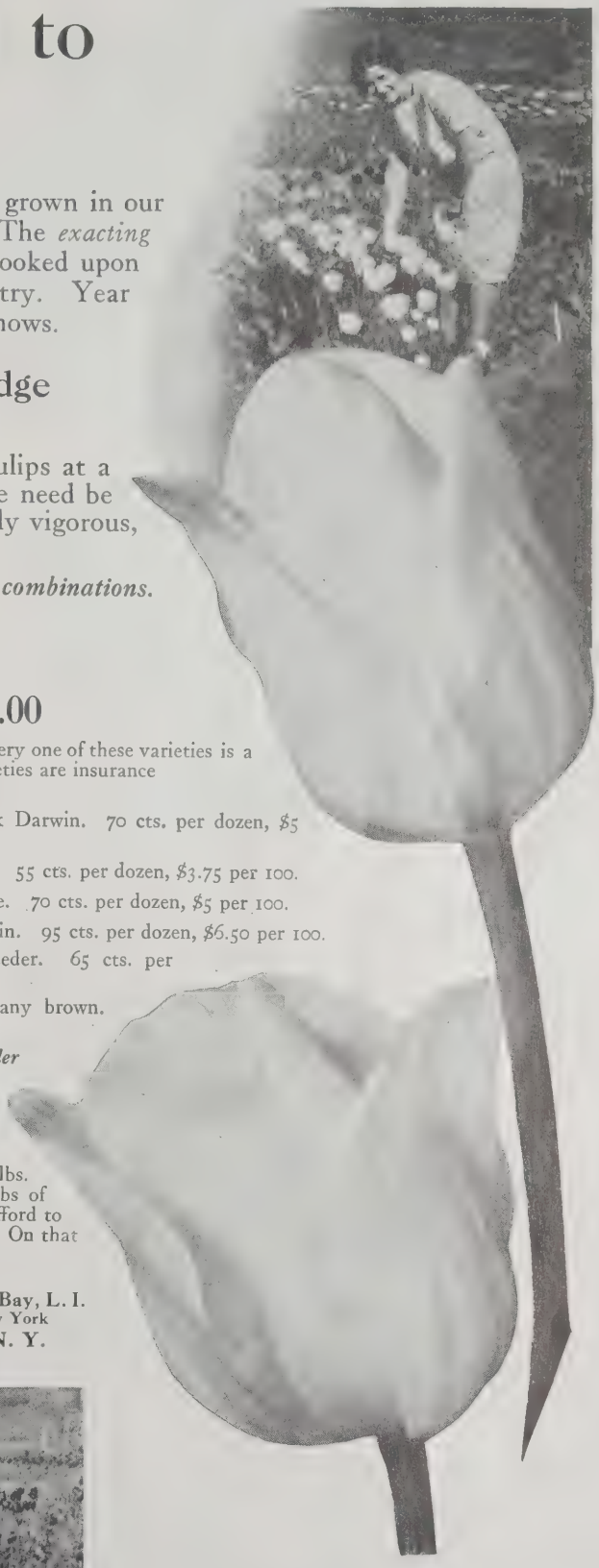
Or Select Your Own from Free Catalog

"Greetings from Tulipdom" offers all that is worth-while in Spring-flowering bulbs. It lists the finest Tulips, choicest Daffodils, Hyacinths and a host of lesser bulbs of acknowledged usefulness in border or Rockery. Being growers ourselves, we can afford to offer the choicest quality for the least that will enable us to maintain that quality. On that basis we invite your orders and requests for catalogs. Please mention G. & H. B.

ZANDBERGEN BROS., *"Tulipdom"* Oyster Bay, L. I. New York

Nurseries at Valkenburg, near Leiden, Holland, and at Babylon, L. I., N. Y.

View in the show grounds of "Tulipdom" during May, showing the late-flowering classes at their best.



SILVERWING—

the magnificent white Darwin—regarded by many as the finest white to-date—always creates a sensation in our show grounds. Strong, stiff stems carry magnificent cup-shaped flowers of great substance and huge size. They will average *one-third larger* than specimens illustrated above. Height, 32 inches. *$9 per dozen, $70 per 100.*

Exclusively at Zandbergen's!

Ten Truly *Great* Hybrid-Teas

from

Tottys

AMERICA

Rose Novelties will rise. Some will shine a while and then pass out—like meteors. Others will become accepted standards among which we recognize leaders. And among these acknowledged leaders some remain stars in the rose firmament. Here are ten of them.

Hardy Hybrid Tea Roses Bloom from June 'till Frost

America. Glorious glowing rose-pink. See illustration above.

Caroline Testout. Salmon-pink, large and very free. One of the finest for all purposes.

Golden Emblem. Deep orange when first opening, blushed claret red, and opening to a pure sulphur yellow.

Irish Elegance. A single five petal Rose of apricot shaded with coppery bronze.

Los Angeles. Luminous flame-pink toned with coral with lighter shadings at the base, very vigorous.

Lady Hillingdon. Beautiful coppery yellow.

Louise Catherine Breslau. Coral-red, shaded chrome yellow opening to a large, full flower of shrimp pink shaded coppery orange,

Miss Lolita Armour. Deep coral-red with blending of golden coppery tones. Very free flowering.

Radiance. Deep pink, almost mildew proof and wonderfully free flowering.

Red Radiance. Brilliant red, free flowering and vigorous.

Price for strong, two-year-old, field-grown plants, **The Set of Ten for Ten Dollars.** Any combination and number of varieties, **$11 per Dozen.**

A Quarter Century of Progress

A Quarter Century of Progress in the Horticultural World is recorded in the Totty Year Book, one of the most interesting catalogs published. It offers the world's finest Roses in heavy, healthy field-grown plants. It deals with the choicest novelties in 'Mums, Glads, Delphiniums and other choice Hardy Perennials. This Catalog is gladly mailed free to all who mention G. & H. B.

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Madison, New Jersey

Better Flowers for Discriminating Buyers at 4 East 53rd St., New York City

Happy Among the Rocks

Many of our prettiest wild flowers revel in rocky ground, hence are ideal rock garden plants. Moreover, being originally children of the woods they enjoy shady situations. Here is the solution for that shady nook in your garden where few other plants will thrive! Develop it into a

Rockery With Shade-loving Plants

We will select for you from among our hundreds of perennials 10 varieties that will thrive and bloom and transform any bare spot into a miniature fairyland. The collection will hold such gems as Bloodroot, Hepaticas (shown above) Mertensia and other flowers thriving in the shade. Or we will select 10 varieties preferring sunny situations. In either case you will get 10 plants of each kind or

100 Rock Garden Plants for $12.00

The fiftieth Anniversary edition of our Catalog is conceded to be the greatest guide to naturalistic gardens published in this country. Free for the asking and please mention G. & H. B.

GILLETT'S *FERN AND FLOWER FARM*

3 Main St., Southwick, Mass.

"Kentucky Bred" Dahlias

The spirit of autumn—a late summer's delight in your garden. Plant the soon and enjoy the blooms until frost. Here's

A Prize Group for - - - - $3.00

that will draw favorable comment in any garden.

Paul Michael (Decorative.) Old gold, full and deep.

Jean Chazot (Cactus.) Profuse bloomer, golden bronze, tinted nasturtium red.

Insulinde (Decorative.) Exceptionally large, curled and twisted petals, deep gold-bronze.

Blue Bird (Peony Flowered.) Mau or lilac, unusually large.

Pride of California (Decorativ Crimson r dark, full center.

Rotarian (Decorative.) Violet-maro large size, rich and soft.

Order Special Garden No. 10 today. There are hundreds of other Dahlias awaiting your cho in the "Kentucky Bred" Garden Book. Also Peonies, Iris Perennials, Trees and Shrubs. complete nursery service. Write for your copy today.

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Merely an Experiment—

POURING water from a bucket into a garden hose seems foolish, but in this case it serves a useful purpose. It shows how you can twist and knot and turn a Bull Dog Cord hose *without closing the water channel.*

Bull Dog Cord is the new flexible garden hose—not *slightly* flexible like the hose you have always known, but actually flexible as you can see by this photograph.

Bull Dog Cord does not kink. Kinks make breaks, Bull Dog Cord is a long-lived hose. Kinky hose annoys the operator. Bull Dog Cord handles easily and pleasantly. When you have seen and used Bull Dog Cord you will not put up with hose of the clumsy old-fashioned type

The *New* Garden Hose that is really *flexible*

BOSTON WOVEN HOSE & RUBBER CO.
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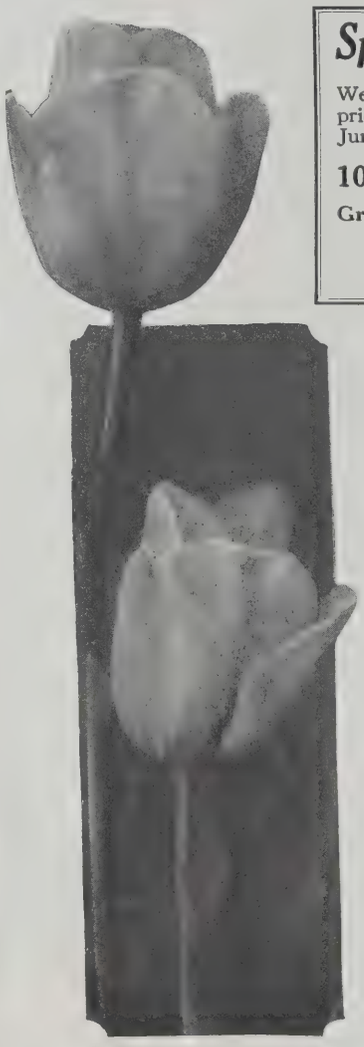
BULL DOG CORD

A growing number of progressive dealers are getting this type of garden hose in their stock. If you cannot find it in your town we will help you.

Send 10c, stamps, for booklet "Making the Garden Grow", Filled with helpful information —actually a professional hand book for the amateur gardener.

Order Your Bulbs Now!

make delivery sure, at a saving of . . **25%**



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We make the following special prices, for orders received before June 1st.

100 DARWIN TULIPS

Grand Assortment made from named sorts, special

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Spring Harbingers

Delightful little gems for edgings, Rock Gardens, etc.

CHIONODOXA (Glory of the Snow)
ERANTHIS (Winter Aconite)
GRAPE HYACINTHS (Heavenly Blue)
SNOWDROPS (Single)
SCILLA CAMPANULATA (Blue)

Any of the above, dozen 40c; $3.00 per 100

100 CROCUS, mixed..... *$2.50*

Border Collection of May-Flowering Tulips

	Doz.	100
BARTIGON (Darwin)—Scarlet	$ .55	$4.00
BRONZE QUEEN (Breeder)—Bronze	.70	5.00
BARONNE DE LA TONNAYE (Darwin)—Rosy pink	.55	4.00
CLARA BUTT (Darwin)—Pink	.50	3.75
FARNCOMBE SANDERS (Darwin)—Red	.55	4.00
INGLESCOMBE YELLOW (Cottage)	.65	4.75
KING HAROLD (Darwin)—Deep red	.60	4.25
PRIDE OF HAARLEM (Darwin)—Rose	.55	4.00
REV. EWBANK (Darwin)—Lilac	.70	5.00
THE SULTAN (Darwin)—Black	.55	4.00

Special Collections

1 doz. of each of the above Splendid Tulips (Value $5.90) for $5.50

100 of each of the above Splendid Tulips Value $42.75 for $40.00

(25 and 50 of each at the 100 rate—all first size bulbs sure to bloom)

NOTE: You may deduct 5% if you send cash with order

Let us put your name on our list to receive our Autumn catalog of bulbs

Bassi Frères Inc. de Paris Est. 1905

Seedsmen Nurserymen

476 Main Street

NEW ROCHELLE, N. Y.

JAPANESE BLACK PINE

Thrives Where the Bleak Winds Blow

GRAYISH or black bark, and long sweeping branches, give a novel beauty to this Pine from Japan (Pinus thunbergii). Hardy into southern Canada, growing well in poor soil, resisting the whipping gales and salt spray of the seashore, sum up its good qualities. It is numbered among the best Pines for exposed places inland and along the coast.

2 to 3 ft. specimens $3.00 each $27.50 for 10
3 to 4 ft. specimens $4.00 each $37.50 for 10

We grow these Pines here at Westbury where conditions are ideal for many evergreens. Come and see them —or send for our latest list of varieties and prices.

HICKS NURSERIES

Box M **Westbury, L. I., New York**

13 Pkts. PERENNIAL SEEDS $1.00

WITH these thirteen packets of seed—all different choice perennials—a treasure garden can be planted that will be a joy for years to come.

Hollyhock. Chater's Double, mixe
Columbines (Aquilegias), long-spurr hybrids.
Canterbury Bell (Campanula), sing mixed.
Hardy Cornflower (Centaurea Mo tana), violet blue.
Shasta Daisy (Chrysanthemum Alaska, white.
Coreopsis. Lanceolata Grandiflora Pl., double, yellow.
Hardy Larkspur (Delphinium), G Medal Hybrids.
Hardy Pink (Dianthus), clove scent
Foxglove (Digitalis), Gloxiniaeflo mixed.
Gaillardia. Grandiflora Superl mixed colors.
Baby's Breath (Gypsophila) Pani lata, white.
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Sweet William, double, mixed.

Any of the above at **10c** per pac or if you mention this ad, the thirte value **$1.30,** for **$1.00.**

THE thirty-seventh issue of Michell's An Catalogue, listing all of the worthwhile tions of the floral and vegetable world containing countless cultural directions and merous color pages, will be mailed free receipt of your request.

MICHELL'S SEED

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Dreer's Super Gladiolus

HUNDREDS of varieties clamor for popular favor. The specialists say you need them all, so in order to save our customers time and worry, we turn super-specialists. We test all Gladiolus of merit, offer only the choicest and from among them select what we consider the top-notchers. These we offer as

The Dreer Dozen of Super-Superb Gladiolus

Our critical attitude in the matter of merit causes this dozen to hold the acknowledged leaders in their respective color classes. Everyone has come through every test with flying colors. All bloom freely, offer charming colors and last long after cutting. Plant them in quantities for a great show in and around the garden home.

Baron Hulot or Blue King. Royal violet-blue. 15 cts. each, $1.50 per doz.; $10.00 per 100.

Crimson Glow. Glowing crimson-scarlet. 15 cts. each; $1.50 per doz.; $10.00 per 100.

Evelyn Kirtland. Rosy pink, with fiery scarlet blotches. 10 cts. each, $1.00 per doz.; $7.00 per 100.

Flora. A golden yellow. 15 cts. each; $1.50 per doz.; $10.00 per 100.

Herada. Pure mauve with deeper markings. 15 cts. each; $1.50 per doz.; $10.00 per 100.

Mrs. Frank Pendleton. Salmon-pink with brilliant deep red blotches. 10 cts. each; $1.00 per doz.; $7.00 per 100.

Peace. White with a touch of carmine. 10 cts. each; $1.00 per doz.; $6.50 per 100.

Pink Wonder. Immense flowers, La France pink. 15 cts. each; $1.50 per doz.; $10.00 per 100.

Prince of Wales. Delicate apricot-pink suffused salmon. 10 cts. each; $1.00 per doz.; $7.00 per 100.

Rev. Ewbank. Beautiful porcelain blue with deeper blotch. 15 cts. each; $1.50 per doz.; $10.00 per 100.

Richard Diener. Pure rose-salmon pink. 20 cts. each; $2.00 per doz. $15.00 per 100.

War. Rich blood red. 10 cts. each; $1.00 per doz.; $7.50 per 100.

Collections of Twelve Super-Superb Gladiolus

1 each of above 12 sorts, 12 bulbs.....$1.25
3 each of above 12 sorts, 36 bulbs.....$3.50
6 each of above 12 sorts, 72 bulbs.....$ 6.50
12 each of above 12 sorts, 144 bulbs.....$10.00

Gold Medal Gladiolus in Mixture

Grown for those of our customers who want something better than the usual run of mixtures. It holds a number of high-priced varieties, in many exquisite shades of great diversity. We consider it by far the finest Gladiolus Mixture ever offered. **Price 65 cts. per doz.; $5.00 per 100; $45.00 per 1,000.**

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Special Catalogue of Dreer's Gold Medal Roses free to all especially interested in the Queen of Flowers.

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The Showers that Mean Flowers

also create ideal conditions for the hatching of Bugs! May opens the season of profligating insect life. Now, if ever, should vigilance be exercised in controlling the garden enemies. Garden vigilance right now (or any time for that matter) is best exercised with the help of

Melrosine

The greatest allround garden cleanser yet evolved. It kills every bug it touches. It eliminates Aphis or plant lice, being a strong contact insecticide. It counteracts rust, blight and other fungus diseases. Melrosine does about everything that can be expected from a complete garden remedy evolved to keep the garden in healthy, thriving conditions due to the absence of disturbing factors.

A dollar's worth will keep a dozen Rose bushes happy all season. A gallon will protect the average home garden all summer. At all good horticultural supply stores or, if unobtainable, we'll supply direct. Free instructive leaflet on request.

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A Garden Full of Dahlias for $3.50

New and Rare Exhibition Dahlias

Few flowers, whether used for garden decoration or principally for cut blooms to decorate the home, are as responsive to simple garden culture as our Modern Dahlia. It has made wonderful advancement in size of bloom, habit of growth and profuse blooming qualities.

In anticipation of again placing before our customers a collection of Dahlias, we have arranged for a sufficient quantity of exceptionally fine, strong Tubers and are offering

12 Dahlia Tubers for $3.50

—one each of 12 distinct varieties, not labeled, which if purchased separately according to name, would cost not less than $10.00

Order Your Tubers Now and plant after the middle of May or when all danger of frost is past. *Cultural instructions in package.*

Mail your order with Check, Money Order, Cash or Stamps, mentioning this advertisement, or call at our store, and secure this fine collection of Dahlia Tubers, sent prepaid to any point in the United States.

For those desiring Dahlias under named varieties, we refer to our 1928 Spring Seed Annual, which contains a list representing the cream of the finest varieties available. If you have not received a copy, we shall be pleased to send one on request.

Stumpp & Walter Co
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A GLASS GARDEN HELP HINT

Of course, none of us like to be told what we ought to do.
That's why this is just a hint.
A hint that if you want a garden full of such Mums as these for around Thanksgiving time, you really should have your Glass Garden ready months before hand.
Same way with roses and carnations.

There is a book called "Greenhouses As We Know Them", which contains a goodly bundle of help hints.
Just such as we surmise you are wanting right now.

Be so good as to send us your name and we'll gladly send the book.
You will be under no obligation to us.

FOR FOUR GENERATIONS BUILDERS OF GREENHOUSES

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The BAY STATE NURSERIES

GARDENING TIME!

Your home properly designed, a garden well planned, surround judiciously planted, all will pay lasting tribute to your good ju ment, foresight and appreciation of life's finer things.

Those who anticipate additions to their gardens, shrubbery or who perhaps require personal advice in regard to their ing problem, are cordially invited to write us.

Bay State offers you an extensive, high grade nursery sto exceptional hardiness and selection, together with a servic will find intelligent and satisfying.

Our 1928 illustrated handbook just completed, is a source uable information—lists all trees, hardy shrubs, perennials able for immediate shipment. Write for it now.

The BAY STATE NURSERIE
W. H. WYMAN and SON Props.
NORTH ABINGTON. MASSACHUSE

Courtesy of the Arnold Arboretum

CHINESE SAND PEA

(*Pyrus calleryana*)

A medium sized tree pyramidal habit, cov with a blanket of w flowers in early spring. ticularly charming in when its magnificent co foliage varies from yello orange, scarlet-red or son. Plant this sprin enjoy this color displ autumn. Strong field-g plants 10 to 12 ft., $5.00 each; 8 to 10 ft., $4.00 each; 6 to $3.00 each.

This and many other interesting *new* plants are listed and desc in our profusely illustrated catalog LANDSCAPES AND G DENS for 1928. Write for your copy now.

WYMAN'S
Framingham Nurseries
FRAMINGHAM—MASSACHUSETTS

Gladiolus: "I planted for experimental purposes 100 Schwaben Bulbs treated with Semesan that were at least one-half mummified. I considered them at that time perfectly worthless. I was very much surprised when all of them showed growth. I have never had any diseased bulbs that produced finer plants or blossoms than those Schwaben Bulbs, treated with Semesan."
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Sweetpeas: "For four years, I have been losing about 75% of my sweetpeas. They grew about twelve inches and then started to damp-off. I bought two ounces of Semesan and used it according to directions. After that I lost only 20 plants out of 3600. I give Semesan the credit for saving me about $500 worth of sweetpeas at a cost of just 50c."
—*LAWRENCE D. CONNELLY, Wheatridge, Colo.*

Make Your Garden a Hobby
Not a Worry

YOUR job or your business may be a hard taskmaster but your flowers should be the products of your spare time genius. The normal risks of weather and caprices of Nature only add to the sporting element of gardening. But plant diseases that don't show themselves on the seed and work destruction under ground take an unfair advantage. There's no fun in replanting, filling in ragged, bare spots, and pulling up and trying to replace seedlings that shrivel and turn yellow. You want a beautiful flower garden, not a disease clinic.

Keep your garden a hobby by taking out the worry. Give your seeds a simple treatment with *Semesan* and kill disease before you plant. Creates a protective zone around the seed and tender roots in the soil so that the seedling has a chance to develop into a strong plant highly resistant to disease attacks. A fruit jar is the only equipment you need. Fifty cents will buy enough *Semesan* to treat all the seeds for a fair-sized garden.

Semesan is an organic mercurical or chlorophenol mercury compound. It is a seed and plant disinfectant, not a fertilizer. Its most important function is to destroy fungi and bacteria on the seed which cause plant diseases. *Semesan* is equally effective as a *dust or liquid*.

You can buy *Semesan* from seedsmen, hardware dealers, druggists, and general stores.

Roses: "Semesan will do more to eradicate black spot and mildew on roses than anything I have ever tried. I was successful in getting a wonderful new growth for next year."
—*LOT D. SUTHERLAND, Canandaigua, N. Y.*

Dahlias: "The writer used your Semesan this spring on dahlia tubers as a preventative of stunt and found it effective. Used it in dust form. In former years I have lost heavily from this disease, having pulled up from twenty to thirty plants. This year I lost none."
—*A. C. PLUMMER, Dumont, N. J.*

DU PONT

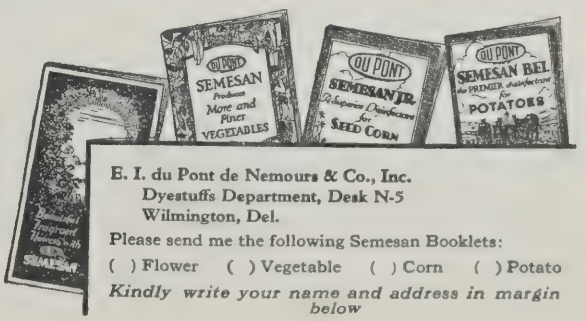
Full directions for the common flower and vegetable seeds are contained in the handy Semesan booklets. The coupon will bring them to you. Mail it NOW.

SEMESAN

SEED DISINFECTANTS

SEMESAN	SEMESAN JR.	SEMESAN BEL
for Seed Diseases	*for Seed Corn*	*for Seed Potatoes*

Send for these free Semesan booklets!



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Please send me the following Semesan Booklets:

( ) Flower ( ) Vegetable ( ) Corn ( ) Potato

Kindly write your name and address in margin below

Van Bourgondien Bros. Box B

BABYLON, LONG ISLAND, N.Y.

1 Inglescombe yellow
2 Baronne de la Tonnaye
3 Rev. Ewbank
4 Clara Butt
5 Farncombe Sanders
6 King Harold

SPECIAL OFFER

12	Bulbs each	6	varieties	(72 bulbs)	$ 3.00
25	" "	6	"	(150 ")	5.50
100	" "	6	"	(600 ")	18.00
500	"	6	"	(3000 ")	85.00

CATALOGUE WITH BEAUTIFUL

10% Discount allowed on all orders received by us before July 1st 192 and accompanied by cash. No discount on bulb orders after July 1.

Van Bourgondien Bros. Box B

BABYLON, LONG ISLAND, N.Y.

1 King Alfred
2 Horace
3 Spring Glory
4 Barri Conspicuus
5 Sir Watkin
6 Emperor

SPECIAL OFFER

6	Bulbs each	6	varieties	(36 bulbs)	$	6.00
12	„ „	6	„	(72 „)		11.00
25	„ „	6	„	(150 „)		22.00
100	„ „	6	„	(600 „)		85.00

COLOR ILLUSTRATIONS "FREE"

10% Discount allowed on all orders received by us before July 1st 1928 and accompanied by cash. No discount on bulb orders after July 1st

Building Healthier Bodies *with* KELSEY HEALTH HEAT

Today, no one needs to be told the important relation of fresh air to health. We know that good health demands good air . . . and lots of it.

But, under modern conditions of living, most of us fail to get the supply of fresh air that healthy bodies need.

In choosing a heating system for your home, make sure that it will provide adequate ventilation as well as adequate heat. For the quality of air supplied is fully as important as the quantity of heat.

With a Kelsey Warm Air Generator you get healthful heat, at all times . . . a steady stream of *fresh* air, properly heated and properly humidified.

If you want some valuable information on the problem of home heating, send for the interesting booklet "Health Heat," which has been prepared by Kelsey heating experts. A copy of this booklet will be mailed free on request. Just fill in and mail the coupon below.

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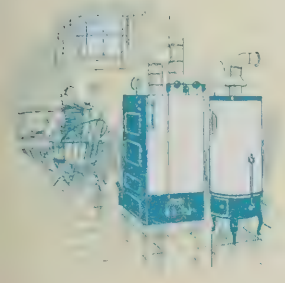

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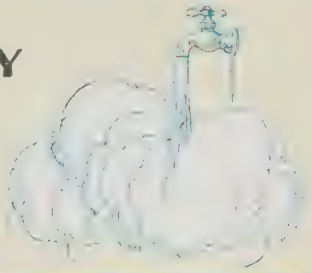

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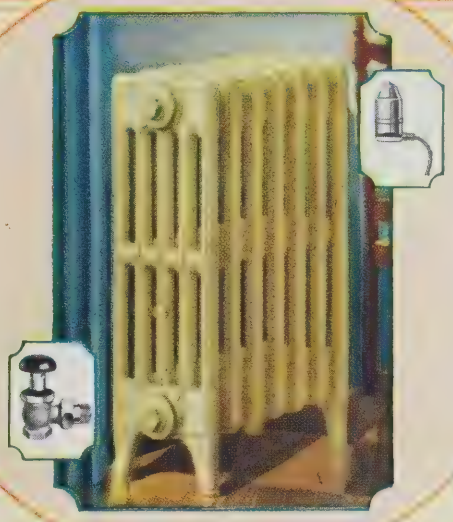

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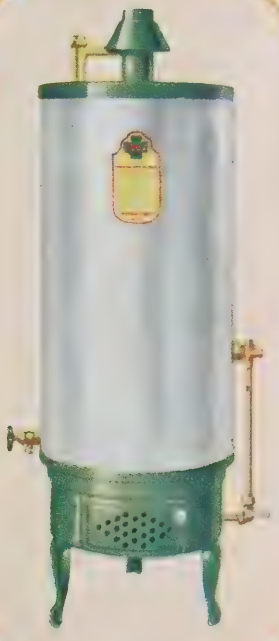

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GARDEN & HOME BUILDER

Contents for MAY 1928

VOLUME XLVII NUMBER III

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FORECAST for JUNE

)F ALL months in the year, probably June is the time when ome' very definitely means both elling and garden. The out-of-ors brings its color and fragrance d beauty within the house, and ite as naturally the indoors creeps t—and books and pillows and airs and teatables dot the lawn d garden. And in our June issue take pleasure in offering to our ders 'The Friendliness of Flowers out the House' by Mary Day nn—a pleasant discussion of flower angements, and how to succeed with them. Especially in June do our oughts turn to 'The Shaded Garden,' and Helen Morgenthau Fox tes of the plants and shrubs which flourish and flower in shady places. The gardener who is anxious to enlarge his perennial border will be interested in a contribution from Alfred C. Hottes on 'Preferable Perennials,' which is fully illustrated.

Looking indoors for a moment, we have a delightful talk on 'New Wallpapers' by Leontine Henry Sanders, and the descriptions and pictures of the lovely new summery papers inspire us to renewed decorative efforts! Hanna Tachau in 'Softening the Summer Sunshine' takes up the very important problem of awnings, useful and decorative; and we have an authoritative presentation of the lighting problem by Walter W. Kantack in 'When Lighting Fixtures Really Light'—placing and wiring for the utmost convenience.

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

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Winter is past and the warm breath of Spring is in the air All nature is pulsating with a joyous new life. The blue skies—The songs of the birds—The perfume laden air—The wavy rustle of the new velvety green leaves—The wonderful sunrises and the still more wonderful sunsets—All are welcome harbingers of a glorious Summer.

Come to Cherry Hill in the following seasons, where you too will find an added inspiration by seeing a splendid collection of

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CHERRY HILL NURSERIES

(T. C. Thurlow's Sons, Inc.)

West Newbury Mass.

Come Into the Garden

IT IS unfortunately true that most gardens are more or less stupid because they are just jumbles of plants thrown into a sort of higgledy-piggledy mixture without rhyme or reason, and this is not because the gardener would wish it to be so but simply from an over-enthusiastic indulgence in trying to grow too many things at once. Better by far to grow two or three things properly than too many things badly. My friend, Mr. Arthur H. Carhart, of Denver, Colorado, has used an expressive title for such. He calls them Dolt Gardens and what he says is too good not to pass on.

'You have heard,' writes Mr. Carhart, 'of Italian gardens, rock gardens, Colonial gardens, French, English, Japanese, formal, informal, blue, white, and perhaps you believe you've heard of every other shape, style, color or period garden made. But, you say, you have never seen a dolt garden!

'Ah, but haven't you? Dolt gardens are positively the greatest class of gardens we have in our country to-day. They outclass every other style or form. Yes, they almost equal the collective aggregate of other gardens. It is a positive shame, too!

'Look in your dictionary. There you will find that a dolt is a heavy stupid fellow. No other term so well fits many, many gardens as well as "dolt."

'This type of garden is just like a jelly fish. It lacks backbone, ribs, nervous system, life blood. It is a mere blob of plantings without character, lacking in personality; better perhaps than nothing at all, but far below the goal the owner had set for it when he planted it.

'Landscape of this type reminds me of a placid, flaccid, fat person, sitting with fidgy, useless folded hands, and with vacant stare out of expressionless blue eyes: the very personification of nittyttedness!

'Gardens become doltish because they are developed without design. There is no picking of expression points, no placing of color accents, no attention to such a fine thing as earth sculpture in the design or consideration of proportion. No rhythm appears in their arrangement, there is no balance of mass against mass. They just sprawl with shrubs, flowers, and trees massed in gobs or spotted on the lawn like raisins in a rice pudding.

Invariably such gardens are "informal" in their design: they are generally as positively informal as a washerwoman in a faded mother hubbard and sunbonnet. Formal gardens demand some consideration of design, arrangement, scheme; and because they do they actually say something, carry a message. It may be good or bad, what they say. The design may be atrocious—but it is articulate. The genuine dolt garden mumbles, fumbles, stutters and says nothing.

The circle gives emphasis and interest to this garden where low stonework swings in widening line, and repeats the rhythm of the central pool

'Gardens, any landscape, should have some story to tell. It should be told brightly, with airiness, with spirit, with good punctuation and emphasis. A garden which does not so express its message is a mute in the garden family. It must be taught the language of the garden and this comes through design.

'Again, a dolt garden might be likened unto a dauby canvas on which colors have been smeared without attention to any design. Grays might predominate but they would blend into each other until there would be no reason for a person to look twice at the canvas. It is, after all, just a daub. Such a "picture," lacking any semblance of composition, would not get the name of picture at all. And yet we continue to call horticultural plantings lacking any design or character "gardens," without any consideration of what really constitutes good landscape design.

'Dolt gardens are often like uninteresting people. They never have had the ability to express themselves. And because they are wholly under the dominance of the people who make them and tend them, they never will have such a chance to express themselves unless their masters recognize the importance and power of good design.

'Have a really critical look at your own place. Does it tell a story, and tell it well? Or is it just an inexpressive thing? If it is doltish, then how can it be made to "snap out of it."

'Consider lines first, powerful lines that catch the eye and lead it to definite accent points. Accent points can be added in the form of color or garden furniture. Give thought to ground form. Perhaps by the addition of a wee terrace, a marking off of some portion higher than the rest of the garden, interest can be added. This same act may correct the proportions of the long panel whose length in relation to width has heretofore made it somewhat ugly.

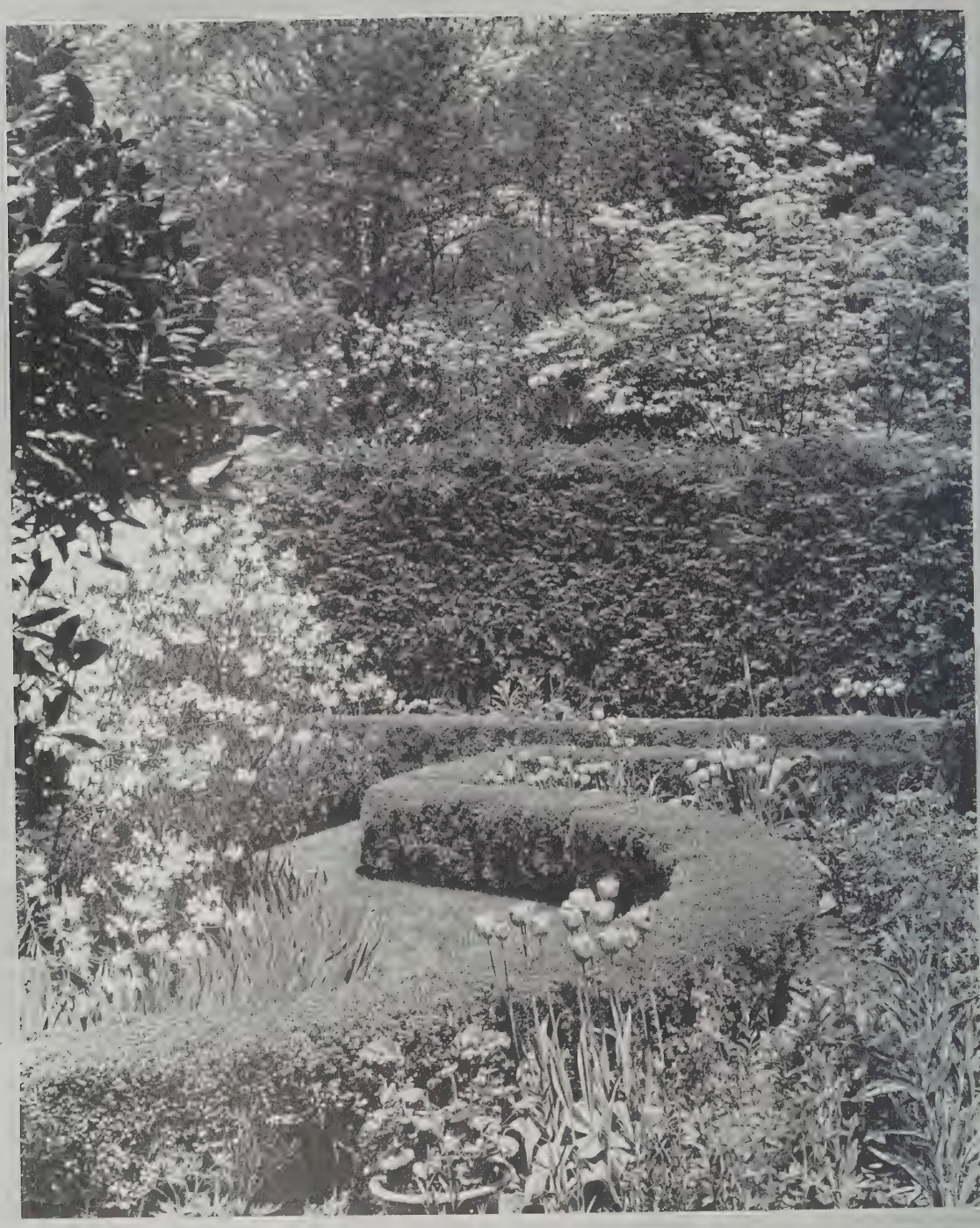
'See that masses are placed to mean something, whether they are plants or construction materials. Get mass balance and thus attain restfulness. See that the scale is harmonious throughout; that some particular feature does not improperly dominate simply because it is over-sized.

'If the scheme is informal, give it rhythm through repetition of accents in such a deft way that they will have the informal character, yet will also have that rhythm. If the scheme is formal, rhythm will come easily and without effort if the masses and lines are well placed.

'It is time to junk or reform the characterless landscape with which we are burdened. Making landscape talk is a little step from the dumb plantings of the dolt garden: the labor cost is the same, the cost of materials is the same and the maintenance is no greater in an expressionless garden than in one with real personality. The characterless garden is just another horticultural zoo.'

Mr. Carhart stresses the need of design in making any garden. But I think there is something else that contributes to the all too common lack of character, and that is lack of personal expression in the plants themselves. Too many gardens are made by just copying something that looked well in somebody else's garden without any regard to its fitness in the new place. Let us be individuals.

Edward Barrow



Photograph by Mattie Edwards Hewitt

'SPRING IS SINGING IN THE BOUGHS'

Dogwood, Azalea, Tulips, glow and gleam, their beauty doubly offset by the restrained green all about—the trig leafage of Boxwood, fine needled Hemlock, deciduous trees new-dressed in the fresh hues of Maytime. Mrs. Robert Bacon's garden at Westbury, Long Island

One of the loveliest of all mountain perennials for the garden is the Pasqueflower, a blue gem displayed with a gray lace collar

A spray of the lovely Margaret von Rechteren Astilbe, a variety which grows five feet tall in good soil. The flowers are of a bright lilacy red color

The Saxifrages surprise us with their great number of kinds, some quite dainty creepers, others making formal cushions, and these large leaved cordifolia hybrids which produce clusters of rose colored bloom in early summer

Better Varieties of Old Favorites

I—Modern rock plant improvements to grow in the flower border without special preparation

ALFRED C. HOTTES

Ohio State Experiment Station

TO THE visitor in the Canadian Rockies there recurs the vision of Ice- Poppies at Lake Louise. He returns re and plants them. They are not as cessful, perhaps, but they are at least souvenir of his visit. Iceland Poppies to rare not only crinkled silken orange, llw and white blossoms; they are mories. Catalogs now list a strain orn as Baker's Sunbeam with large wrs having such colors as to truly ri'y. They are fleeting visitors in many rens where winter snows do not protthem enough and summer suns exu: them. But each year we desire such wth-while guest, who, at least, does not ertay his welcome.

Erly in the year we wait anxiously and pciate fully any touch of color. We t the garden when the snow has dertd, we look for the Winter-aconite rathis hyemalis). We seem to imagine atits golden flowers and fresh green yeaves have managed to capture the stvarm rays of the sun. It is a pleasure lok at flowers in the garden while re still wearing our mittens. The mr-aconite is then a promise that soon the buds of the Arabis or Rock-cress will be white and the Goldentuft (Alyssum saxatile) will be more gloriously golden. Lovelier in color and less often listed is the lemon yellow variety of the Alyssum known as var. citrinum.

We are expectant for the Moss Phlox, our woodlands appear pink with these mats of bloom. In our gardens we note that the color is a trifle muddy or magenta, we search the catalogs and find that Phlox subulata var. Vivid is a clearer pink and has larger flowers produced in greater profusion. We choose the lilac variety because of its dainty color but know that it is not as profuse in its flower production. We grow Phlox amoena realizing that it is less hardy and less persistent but admire its more circular blooms.

After seeing the Blue Phlox or wild Sweet-william (Phlox divaricata) used to border beds of Darwin Tulips, we decide to imitate and looking in our catalogs find that the variety Lapham is bluer than the wild one. At the Brooklyn Botanical Garden last year was seen Perry's Variety, which can be kept in bloom all summer.

So cheery are the hardy Primroses that each year we decide to have more of them. We vow that we shall buy seed of better sorts than we now possess. We order seed and few germinate. We order plants and wish that we had hundreds. If we have a European catalog we are Primrose mad, inasmuch as we see scores of sorts listed. We wonder which ones would be successful. In Ohio we have found a few species which thrive, namely, the Kashmir Primrose, listed as a variety of Primula denticulata, a lovely lavender sort with the flowers produced in a globular head and with leaves that are golden mealy beneath. A second group known as the Japonica Hybrids was originated by Moerheim. The flowers are pink, purple, and crimson, and arranged like an apartment house, one story above another. These two sorts will prefer some shade and a moist, woodsy place.

Two lovely flowers of the spring are the Pasqueflower, Anemone pulsatilla and the Snowdrop Anemone (Anemone sylvestris). The Pasqueflower is also blue. The dainty leaves covered with a gray fur coat spring up before most perennials

have started to grow and are followed by the most exquisite blue flowers with a crown of yellow stamens in the center. The flowers stems and the large calyx are gray hairy. The display has not ended when the flowers are passed, because silky seed heads are rapidly developed which are decorative. The Snowdrop Anemone has a different appearance, being bell-shaped, nodding and white. They bloom in Ohio for Memorial Day when planted in a sheltered, moist spot.

The divine flowers as their name, Dianthus, translated means, form a group of Pinks endeared to the hearts and noses of all gardeners. The Clove Pinks propagate easily and are passed about from neighbor to neighbor until everyone has the same sorts. Some of the cataloged sorts may be raised from seed which produce larger flowers in greater profusion. Annie Laurie and such sorts as Essex Witch and Abbotsford are named varieties, of which plants should be purchased, and from them cuttings can be taken another year. Annie Laurie is a large rosy purple sort with a deep ring of color near the center.

The Allwood Pinks, of English production, have not proven hardy with us, but he who has not grown masses of the tiny flowered sorts such as the Maiden Pink (Dianthus deltoides), and the Cheddar Pink (Dianthus caesius), has missed two valuable acquisitions to his border. Both sorts produce tumbling masses of tiny star-like bloom.

From earliest childhood those persons who have been reared in a garden have taken an interest in what they call 'frogs,' a juicy leaved plant. We have all soaked the leaves in our mouths and separated the skins and inflated the leaves. This is the Showy Stonecrop or Sedum spectabile. The flowers are normally light pink in large heads, but a variety known as Brilliant is a deep rose or almost true carmine. So drought resistant is the plant that I once had a plant in a pot all winter without giving it a drop of water. It was in a greenhouse and grew very tall. In spring it was set in the perennial border and continued to thrive. We cannot help admiring its tenacity to life. The scores of Sedums might be made a study for a lifetime. Many sorts are found in catalogs, ranging from the tufted S. stahli, the creeping S. acre, the fast-spreading S. sarmentosum, the gray leaved S. glaucum, the brilliant orange S. kamschaticum to the lovely pink and gray leaves of S. sieboldi. No garden is so small but that hundreds of these lovely alpine gems are perfectly in place.

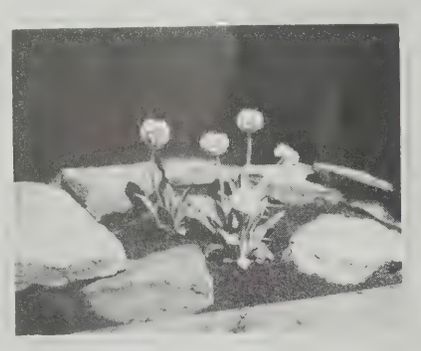
Similar to Sedums are the seldom-seen Saxifrages, of which the sorts known as Saxifraga cordifolia and S. crassifolia have fresh green almost orbicular leaves and clusters of pink flowers borne upon the plants in April or May.

Each year our gardens are enriched b the feathery flowers of the Astilbes Herbaceous Spireas known as Ahrend Hybrids. There is the lovely, droopin clustered pink and white Betsy Cuperu the more erect Margaret Rechteren, gro ing five feet tall with bright red flowe the dense spiked pink Meta Immink, a many others. They prefer cool spots semi-shade and large quantities of wat

Also known as a Spirea but really Dropwort is Filipendula hexapetala, p haps cataloged as Ulmaria. The la leaves produce tufted plants a foot t and serve as ideal edging plants becau the foliage is always good. The dainty cl ters of white single or double button-l flowers appear in June and July to add further plea for its intimate acquaintan

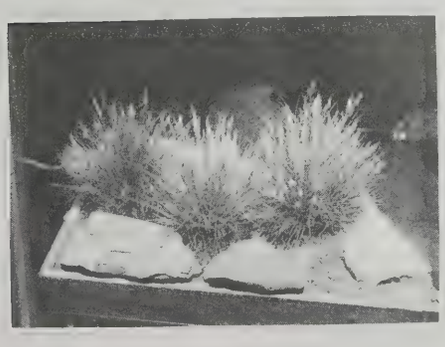
Edging plants are common and num ous but few are truly ideal because of th desire to roam farther than intended. T Gray Fescue (Festuca glauca) is a ne tufted grass, gray-green in color, prolific reproduction but always knows wh you intended it to stay. It never appe shabby, nor dies immaturely to the s nor is it gaudy as is the little Tu Oakgrass, Arrhenatherum, which variegated leaves and interesting stri of yellow beadlike, tuberous roots. T sort is attractive but dies to the soil ev summer to revive by fall.

Violas are truly at home among rocks but who (continued on page 3



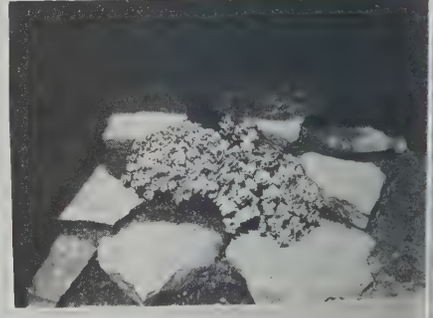
Here we have a family of Cashmir Primroses posing for their photograph in the earliest days of spring

An improvement u the old Moss Pink the variety Vivid deeper, clearer, brig color

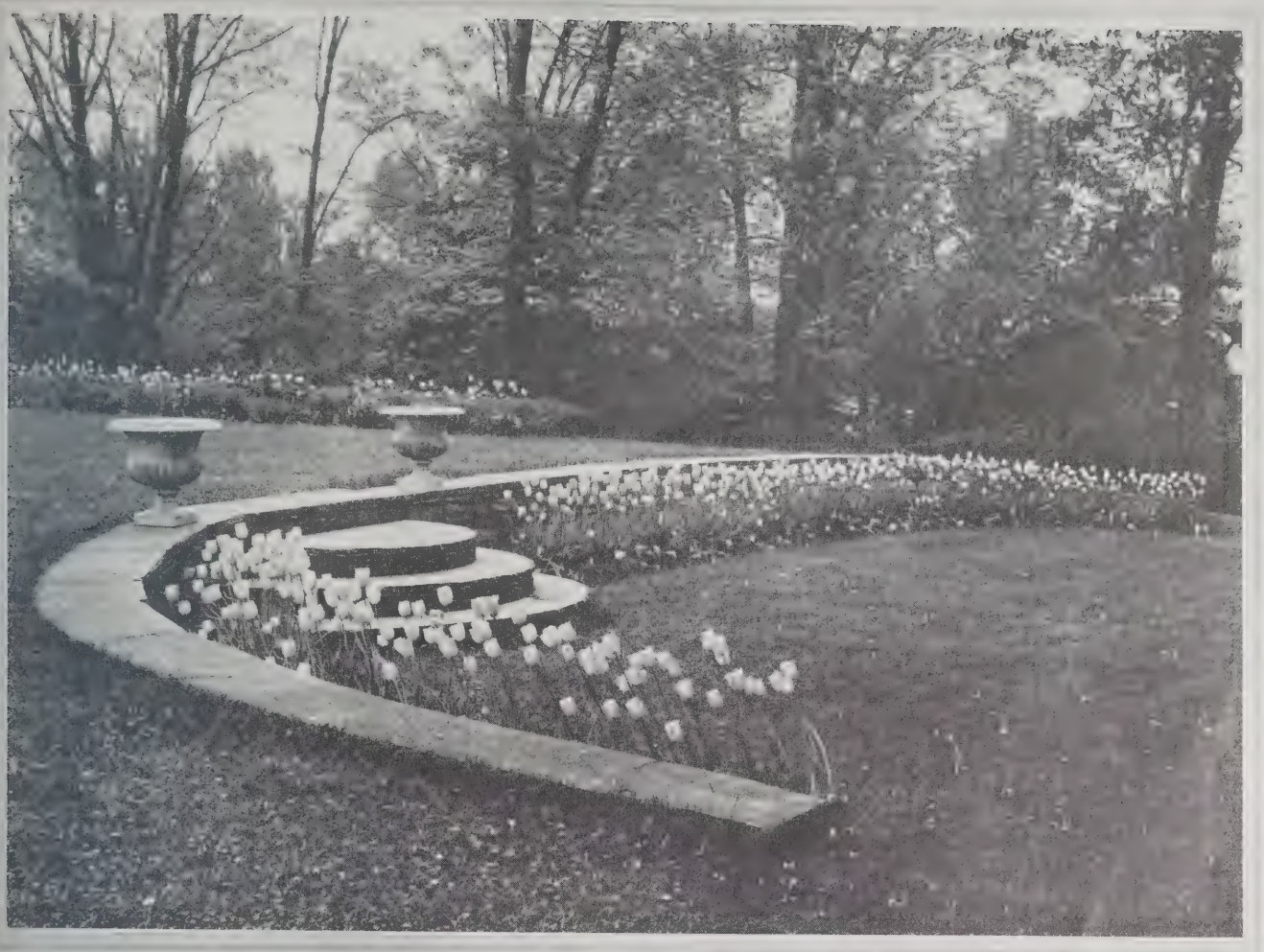


An ideal plant for edging garden borders, the Blue Fescue, is a grass which is always attractive whether in summer or winter, and keeps in bounds

The lovely strain of Baker's Sunbeam Iceland Poppies (below). It includes flowers of lovelier orange and lemon hues and in texture more crinkled and silky



One of the loveliest garden Stonecrops, Siebold's Sedum, with its pink tinted, grey leaves produced in groups of three grows anywhere and resists drought



Very lovely indeed this 'faëry ring' of Darwin Tulips which were planted four years ago and have never been lifted. They are the pink Clara Butt and their high-water mark is three and one half feet. Garden of Mrs. Livingston Farrand at Ithaca, N. Y.

Tulips for Permanent Planting

MRS. LIVINGSTON FARRAND

IS picture points no moral. In ct, it may be said to illustrate a ensible practice, but it also goes rve that in gardening, as in life, one ccasionally smash conventions and a ay with it!

horetically speaking, as every good ler knows, Tulip bulbs should be devery spring when their foliage own. They are then dried in a cool eluring the summer months, after chthey may be reset in the autumn. egardeners hold that no harm will ef they are allowed to remain un- ned for two years in the same place, ept in the wild garden, under no circumstances should they be left longer than that.

The Tulips in this picture had no such tender consideration shown them.

Four years ago 150 Darwins Clara Butt were planted at the base of the stone wall to bloom with Forget-me-nots in the following spring. Three springs later (1927) this photograph was taken and 670 blossoms of unusual size and beauty were counted. The wall is $3\frac{1}{2}$ feet at the highest point, so the length of the stems may be judged by that.

Before the Tulips have died down completely each year it has been the practice in this garden to plant Geranium Mrs. Lawrence and Ageratum over and between the bulbs, so that there is a fairly constant demand upon the soil.

This was very carefully prepared in the beginning but beyond an occasional handful of bonemeal worked in each autumn, no other special attention or feeding is given to the bed. The writer makes no attempt to explain the vigor of these bulbs, left so long under these conditions, nor does she presume to defend the practice. She merely ventures to hope that some other gardener, harassed by the rush of June, may be encouraged to discover for themselves that the careless do occasionally flourish!

Tulips Best for Everybody's Garden

A symposium of expert opinion

JUST which ones to select from among scores of varieties, even in one and the same class and of similar color, is a problem that, as a rule, only experience can solve. In an endeavor to make choosing among the varieties a bit easier for those of our readers not familiar with the relative values and behavior of the various varieties, we have asked the foremost bulb merchants to make selections on the basis of popularity, quality, distinction and availability this season. The consensus of their opinions is embodied herewith.

The varieties selected do not necessarily represent either the rarest or the commonest. Rather are they selected for their general usefulness under widely varying conditions. In the case of a few of the newer and more expensive varieties which are listed the only difference between them and other well tried standards is that they have special vigor or endurance in bloom.

A SPECIAL CHOICE OF SIX STURDY STANDARDS

Few gardens afford space for more than a half dozen varieties and it would be difficult to select from the three score kinds the six that will best serve in the average home garden. But on the basis of all votes cast this half dozen comes out as the most popular in their respective color classes:

Clara Butt—salmon pink
Farncombe Sanders—geranium scarlet
La Tristesse—deep slaty blue
La Tulipe Noire—maroon black
Pride of Haarlem—rich rose carmine
Princess Elizabeth—rich rosy pink

The gardener who gets this battery of six sorts will have a set hard to equal for brilliancy and distinctiveness with even the highest price novelties, and the cost will be so low as to make the planting of 500 or even a thousand bulbs so cheap that it will not make much of a dent in even a flat pocket-book.

In connection with the Darwins mentioned in table below it should be borne in mind that the variation in blooming season is apt to differ greatly from one year to another. A great deal depends upon the weather; if the season is cool and backward and continues for a week or two during the blooming season, then the flowers will behave naturally. But if a sudden turn in the weather should bring a hot spell, then the early varieties will not last as long, the midseason and late varieties will come into bloom quickly, and a show that ordinarily should last three weeks may be over in ten days. Such happened to be the case last season when all the early ones were late and all the late Darwins bloomed early. Contrasts of weather—hot and cold and dry and wet—will upset the schedule every time.

A good alternate choice of six varieties would be:

Ariadne—cherry red, height 28 inches
Petrus Hondius—carmine rose, height 30 inches
Duchess of Hohenburg—gray lilac and rosy heliotrope, 29 inches
Baronne de la Tonnaye—bright rose margined blush rose, 30 inches
Afterglow—striking combination of rose and orange, 30 inches
La Candeur—delicate opalescent whitish tints and black anthers, 28 inches

COTTAGE TULIPS

The Cottage Tulips are probably the longest lived and most lasting of all and endured in European cottage gardens in that period when the Tulip was not in high fashion. They are the 'old favorites' of the family, flower during May, approximately the same time as the Darwins and Breeders. It is here we look for the best yellows and other pure or bright colors.

	Height Inches
Yellow	
INGLESCOMBE YELLOW, like a golden yellow Darwin	23
MRS. MOON, golden yellow, tall and very large	25
AVIS KENNICOTT, rich chrome yellow, black base and anthers	24
WALTER T. WARE, rich deep golden yellow, broad reflexing tip	20
MR. DAMES, large robust flower, clear yellow, immense	22
Red	
GESNERIANA SPATHULATA, brilliant scarlet, blue center	18
GRENADIER, dazzling crimson, very large.	24
ORANGE KING, bright deep orange, shaded rose	23
FULGENS, deep brilliant scarlet, reflexing petals	33
SCARLET EMPEROR, bright scarlet, clear yellow base	23
LE MERVEILLE, very large, sweet scented, salmon rose overlaid with orange red	20
Pink	
INGLESCOMBE PINK, soft rose with salmon flush	25
PRIDE OF INGLESCOMBE, opening creamy white, feathered soft carmine, blue base	23
SIR HARRY, large lavender pink, fine shape	22
ROSABELLA, beautiful shade of salmon rose, novelty	21
White	
PICOTEE, white, heavily margined rose	20
ROYAL WHITE, pure white with primrose on center petals	16
Combinations	
FAIRY QUEEN, rosy heliotrope, broad amber yellow margin	25
JOHN RUSKIN, a blending of apricot, rose and mauve.	18
THE FAWN, pale rosy fawn changing to blush rose	20
QUAINTNESS, golden brown flushed old rose, mahogany inside with yellow base	20
ZOMMERSCHOON, glittering orange red, flaked white	16

BREEDER TULIPS

The Breeders form a distinct class by themselves being 'unbroken' seedling forms of the oldtime Florist's Tulips, becom more popular with the revival of the ta for bronze, brown and buff tones. mense blooms borne on strong stiff ste

	H in
Bronze Yellow	
APRICOT, apricot edged buff, large flower	
BRONZE QUEEN, soft buff, tinged golden bronze	
YELLOW PERFECTION, light bronze yellow, golden edge	
GARIBALDI, pale lilac bronze, edged primrose yellow	
GOLDFINCH, golden brown, flushed lilac, pointed flower	
JAUNE D'OEUF, lively apricot with broad lilac stripe	
PRINCE ALBERT, Glowing mahogany brown, shaded bronze, loose flower.	
Brown	
DOM PEDRO, coffee brown, edged golden brown, large flower	
LOUIS XIV, dark purple, steel blue shaded, flushed bronze	
TURENNE, violet brown, yellow edge, large flower	
LUCIFER, dark orange, flushed rose, edged scarlet orange	
INDIAN CHIEF, coppery red, large flower of exceptional form	
Red and pink	
PANORAMA, deep orange, shaded mahogany, brilliant, large	
CARDINAL MANNING, dark rosy violet, flushed rose brown	
FEU ARDENT, brick-red, shaded mahogany	
HELOISE, purplish red, shaded old rose, inside brown	
MARIE LOUISE, salmon and old rose, orange edge	
PINK PEARL, most beautiful pink Tulip	
Purple	
VELVET KING, dark glossy maroon purple, yellowish base	
GODET PARFAIT, bright dark violet with white base	
BACCHUS, dark plum blue, enormous flower	
ROI SOLEIL, purple flushed bronze, wonderful color, large	
Lavender	
BUTTERFLY, lilac, lighter toward edge	
PROFESSOR SCHOTEL, bright grayish violet, yellow base, very rare	
VERTUMNUS, rose purple becoming grayish lilac, large, loose flower	

DARWIN TULIPS

The chief characteristics of the Dar are the perfect cup shape of the flo fleshy substantial petals, tall stems 'pastel' colors with complete absen yellow in any part of the flower.

(Numbers indicate relative time of flow

Red
MR. FARNCOMBE SANDERS, (2) brilliant ros red, clear white base; large perfect shape
PRIDE OF HAARLEM, (1) brilliant rose carmin with blue base; enormous flower
ECLIPSE, (3) deep rich glowing blood red; hug flower fine form, tall
KING HAROLD, (2) deep purple red with whit base
KING GEORGE V., (3) brilliant cherry red; in side orange scarlet with blue base
Lavender
DREAM, (2) pale heliotrope inside deep viole blue base
REVEREND EWBANK, (2) soft lavender viol with lighter tint at edges; white base

continued on page 310

Where walls are plain nothing can so easily bring color to them as painted furniture. In this delightful room the flower baskets on the panels and drawers of chiffonier and dresser strike a note of delicate beauty

Furniture that Reflects the Spring

Painted furniture, attractive and easy to achieve, that brings color, contrast, and harmony to the simplest or most elaborate room

LUCY D. TAYLOR

AINTED furniture can be lovely amid the most beautiful surround-, or in simple rooms where color must the place of fine detail in the form of iture. I recall once sending some stu-s of furniture design to the art de-ment of a well-known public library to rt upon 'painted furniture of the 18th ury.' They returned with the word the librarian said that there was ing of the sort recorded in period fur-re, this notwithstanding the fact in both England and France it was ommon use! To his mind, painted iture meant a porch chair or a kitchen er. The beautiful painted pieces of aton did not exist for him. This is rtunately true in the minds of many le who have given the subject of ed furniture but little of their serious tion.

Modern tendencies are distinctly to-brilliant color. Often it is in broad of strongly contrasted hue and this influence has been felt strongly in all of our interiors. We may not accept the forms of this 'modern' art; but we have already accepted some of the definiteness of the color thinking, much to the enlivenment of our rooms. Among other things, these modernists have quite definitely proved that simple painted furniture may be used with effectiveness even in the best room in the house.

Suppose the problem is that of the hall in a simple suburban house. It needs only a goodly supply of wit to make the paint pot save many dollars. The usual run of glossy tables of nondescript design that can be bought at moderate price is frankly discouraging. Placed in the hall with an equally nondescript mirror they never express *us*. They are quite frankly impersonal. But the little painted console in dull red, old gold or handsome blue-green, with its yellow and green mirror above it, as seen against the finely colored wall is a lovely bit of design, full of satisfaction to us every time we enter the hall. And the console may have cost a very small sum. There are several manufacturers sending out this unfinished furniture in such excellent simple design that the clever housewife when supplied with a paint pot can do wonders with it.

Perhaps the problem is a living room. There is far too often, unnecessarily, too, a deadly stiffness and sombreness in the big sofa, two chairs like it, odd rocker, radio and piano. The addition of two or three painted chairs, a bookcase, a little coffee stand, or a hanging cabinet is like the sun coming out after a long wet spell. Color, properly applied, can work wonders in *any* kind of room.

Or it may be the oak set in the attic room which now has to do duty as the special sanctum for one of the children who has outgrown his companions and needs a room in which to stretch himself. It is an old story, removing the curly-cues and extra knobs from bed and bureau

and painting them in beautiful color to harmonize with the wallpaper and curtains. But how often do we really dare to do this? For the attic room, yes. But there is a bedroom set down in the guest room which could be vastly improved by proper color and decoration. Why not dare? And thus, at small cost, have a really lovely room for our guests?

'Shall I paint everything in the room?' I hear someone ask. It is not necessary. There are innumerable ways of handling the color.

We must first of all consider just how and where to balance the largest colored surfaces. They must be adjusted to wall paper as well as to curtains and rugs. We may decide that the bed and dresser would be too strong in tone to balance our present curtain arrangement; it would make the room one-sided. That leaves the possibility of painting a few of the incidental pieces and thereby giving the room renewed life. We may decide that we can best get both balance and interest through a careful placing of colors of different character upon several of our pieces, both large and small. Or we may paint the bed, the dresser, a straight chair or two and use upholstered furniture and natural wood for the remaining chairs and table.

Anything that is lovely in color, that balances with the walls and curtains, and does not give us too many big, blatantly colored areas to look at, can usually be worked into a pretty, colorful and thoroughly harmonious ensemble. There must be consistency in the color accent to give unity—a quality that is absolutely essential for any restful effect.

To make this very specific, let us visualize a little bedroom. If we make three different lay-outs for it, using painted furniture, the principles suggested in the preceding paragraphs will be much clearer. And they apply to every kind of a room from kitchen to reception room.

In all three of the plans, the following items will remain fixed. There is a chintz wallpaper with cream ground and small flowers in red, green, and yellow, the latter predominating. The woodwork is cream to match the background of the paper. Curtains are pale corn color in some sort of thin material. There is no overdrapery because the room is small; and considering the location of the two windows, over-

Boston rockers with their cheery flowers and painted scenes bring happy memories of childhood days when there were still real grandmothers

The severe simplicity of this single bed has been utterly routed by the bright little colored spots at head and foot. (Ethel A. Reeve, Decorator)

drapery, unless handle with utmost discretion would be likely to create a almost impossible balancing problem.

In the first plan the be and the dresser are left i maple. The old armchair a the window has been give a slip cover which effe tively conceals its most un desirable pecularities o form. In its flounced chint of quaint figure upon rather dark background deep mahogany red wit orange and yellow flowe offset by a combination dull and a few brillian green leaves, it establishe a balance for that side of th room. This is opposite th weight given by the mapl tones of the bed and dresse

There is a slat back, rus bottomed armchair betwee the dresser and the litt serving cabinet. Both th and the night stand cou well be of the maple, t former with pad covere with chintz like the oth armchair. This leaves t little serving stand, the l table, the desk and straight chair to painted. And they must balance the ready established items, without loomi up as 'colored furniture'! What col shall they be? (continued on page 324)

The thumb-nail sketches show various stages in the development of the little house before a satisfactory solution was arrived at (see photograph above). Home of Mr. and Mrs. Benjamin F. Betts, Scarsdale, N. Y.

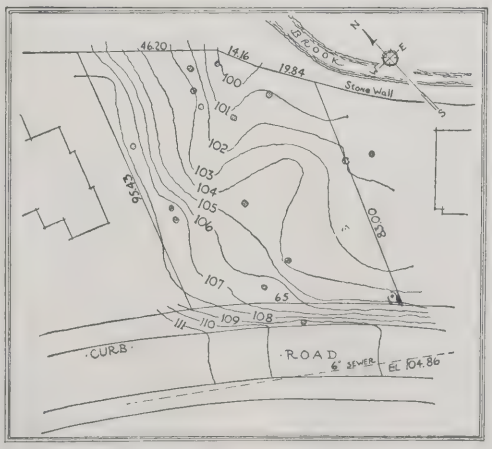
Watching the Little House Grow

Part I. Building from the ground up—the story of a six-room house designed by its architect-owner

BENJAMIN F. BETTS

'TER the usual search for a bit of land which would fit our taste and we found at last a pleasant little e lot with plenty of trees, a near by , and woods not far away. There oo, a pond within sight; and, in the f practical advantages both station chool stood considerably less than e off. Having acquired this site, seemed ideal to us, we began to round with the notion of what sort se would not only look best but be r everyday living. The very uneven- f the ground promised something nt, set the imagination excitedly k—the dwelling that would suit a t wouldn't go here at all.

as several months before the final tin came, and it didn't just come— out of a series of discards, plans r one reason or another missed. companying illustrations show the the story, also some of the steps te, and the record of our haps and mishaps is here set down in the hope that it may profit other folk about to engage in the fascinating game of home building. Incidentally let me remark for the benefit of any so misguided as to envy an architect when he begins to build for himself, that being one's own architect is somewhat like being both doctor and patient—one is handicapped by standing too close to the problem.

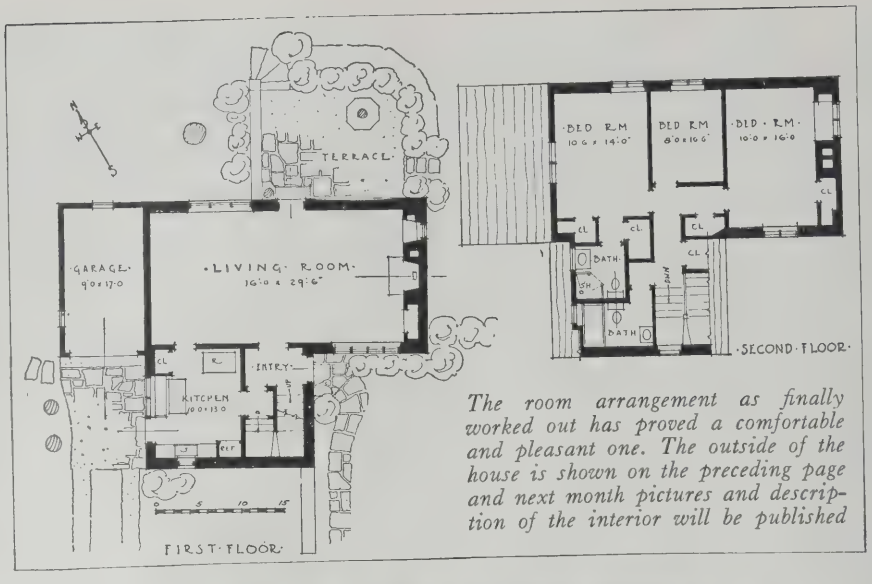


The varying levels and other idiosyncrasies of the lot were clearly revealed by a topographical survey which had a direct bearing on the design of the house

The amount of money that we felt justified in investing made it at once apparent that the house, to satisfy the requirements of two grown-ups and two children, must be of minimum size unless quality and good construction were to be sacrificed, which is, of course, never good practice and ultimately results in increased upkeep.

Briefly, our home must come within the catagory of 'low-cost housing.' A kitchen, small dining room, living room, three bedrooms, a bathroom and garage seemed essential requirements. Also with

two active and growing boys, the house must be built to stand up under 'punishment' and not require constant refinishing. It was important to select and combine materials that would grow old gracefully and minimize the necessity of frequent painting or replacement. A small six-room house, to be built as cheaply as consistent with good results, of a design attractive in itself and suitable for the selected site—that was our program in a nutshell.



The room arrangement as finally worked out has proved a comfortable and pleasant one. The outside of the house is shown on the preceding page and next month pictures and description of the interior will be published

Architects agree that the design of the small house is the bane of their existence because of the necessity for an economy often difficult to reconcile with the extravagant demands of the prospective owner; and first of all it must be recognized that the small house is a *small house* and not a large house made small.

In our own case several drawings were made to determine the relative sizes of rooms and their relation for convenience, outlook and orientation. Several possible plans (see below) were tried to determine the minimum floor area that would give the maximum usable space. In the meantime a survey of the property had been ordered. The engineer's drawing showed that the side lines of the property formed acute angles with the front line and that the rear line followed the irregularities of an old stone wall near the brook. The zoning ordinance required that buildings must be placed at least ten feet from the side lines. Thus site and legal requirements necessitated radical changes in our original plan, and scheme two produced a very small dining room and none too large living room. Since a dining room is used about four hours each day, we decided to combine both areas and secure one room of reasonable size and proportion as against two rooms neither of which would be entirely satisfactory. One of the perplexities to be overcome in designing a small house is that of avoiding any feeling of being cramped or 'shut-in.' The combining of dining and living rooms has proved after a year's occupancy to be one of the best features of our final plan (see left). Before completin this, exterior elevatio and disposition of furn ture were of cour taken into account.

A rough study of th exterior indicated th the inequalities of t site must be definite known and a top graphical survey (i cluding ground co tours, location of tre and of street sewe was ordered. With th map and the prelimi ary sketch plans anoth inspection of the was made which h an important beari on the design of the terior for, in order to avoid an a pearance of building too close to t neighboring house on the west, found it better not to build over t garage. Houses are all too frequen put up without thought of th relation to their neighbors.

As the plans and elevations p gressed we found that the additio cost of a second bathroom would justified on the grounds of c venience, loan and resale value the property. Space was made this by eliminating a large toy cl originally provided for the child Lot levels and depth of street se made it advisable to keep all plumbing on the street front so t the house could be set as much low the road as possible. A matter of fact, the house sewe located above the first floor l For economy in plumbing the b rooms were put next each o above the kitchen, leaving plac three bedrooms of reasonable over the living room.

All the detail of the little house has an endearing touch of personality, shared by even such a minor appurtenance as the letterbox *(see page 346)*

Among other difficulties countered in designing a small hou that of the reduction of hall areas minimum. Sometimes this situatio partially met by combining the hall and living room, not a very h solution. In our case the entry is a pi point, giving access to front door, l room, kitchen, basement and second stairways. The service portion of thi floor can be pletely shu from the livin tion — a des feature in house. Since was plentiful locality, this terial was se

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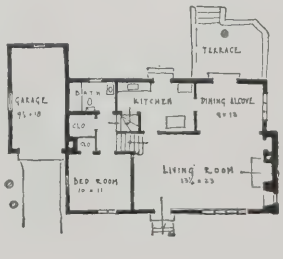
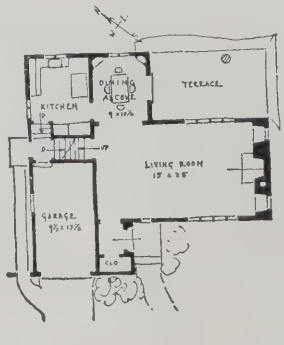
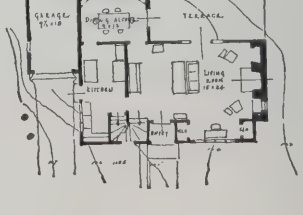
Progressive steps in the development of the plan (below) which ultimately evolved into the form shown at the top of this page







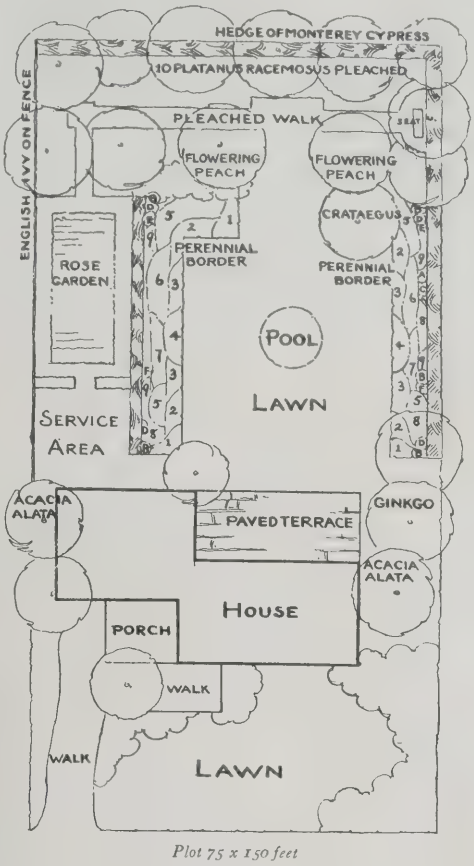
The Little Garden of Gaiety

With alternate planting suggestions

FLORENCE YOCH & LUCILE COUNCIL, Landscape Architects

N THE East even gaiety may slumber. California, however, has a twelve nths' responsibility to keep the garden and charming. Decay has no charm. the fundamental lines of our design must employ only plants that remain ifty and interesting throughout the r, avoiding the opposite pitfall of notony which is never conducive to ety. Some of our most obligingly ever- en things become very monotonous most of the easily attained and long uring garden color becomes wearisone. s elsewhere, design is our friend and nforter. It dictates feeling, guides ice of material and tides over the lean son. Given simple, satisfying lines ked out in substantial materials and resting shapes and leaf texture, we e the framework on which to apply everchanging element of color.

he first burst of spring is the one con- ntly recurring thrill that never palls unless fu ly featured a garden fails ne of its foremost purposes. The colors ressing spring are crystal clear and tle harmonies. In summer gaiety takes igher pitch and the full gamut of lgent brilliant discord is surprisingly sfying. For autumn, rich minor notes,



Plot 75 x 150 feet

purple, mauve, smoky gold, and burnt rose embody the mood. In southern California there are quite a number of things that flower blithely on into winter and it is always surprising how a least flicker of color can light up an evergreen garden.

Some things that hold full beauty to the end—like Salvia leucantha and Lantanas—become important, but it is the few hardy souls like the earliest Acacias, Jasminum primulinum and Winter Peas and Bignonias which are cheerfully starting their new careers, bringing forth fresh color, while everything else is relinquishing the ghost. Though often obscured during the more colorful seaons, it is in winter that design comes into its own.

Of course, the voice of the garden is water and in the tiniest garden it is possible to get a maximum of effect by the simplest means—a central location, no coping, and an exaggeratedly high spray, can be almost dramatic.

Contrast is the foil for color, light, and music, so here we surround our gay little garden by rather a prim solid green hedge along the sides. At the rear we look into the shadowy depth of pleached trees. The borders are planted to things of woodsy character, few flowers, and delicate shades.

FOR THE EAST	*FOR THE WEST*
PERENNIAL BORDER	
Edgers	
1. Phlox subulata Aubretia Iris Crimson King	1. Statice perezi Convolvulus mauritanica
2. Alyssum saxatile Viola, yellow Iris cristata Tulip Moonlight	2. Alyssum saxatile Viola, yellow Iris stylosa Tulip Moonlight Lobelia
3. Virginia Stock Pansy, mixed English Daisy Tulip Clara Butt Tulip Melicette	3. Virginia Stock Pansy, mixed English Daisy Tulip Clara Butt Tulip Melicette Dianthus
4. Blue Viola Verbena, purple and lavender Ageratum	4. Blue Viola Verbena, purple and lavender Ageratum
Middle Ground	
5. Pentstemon Iris pallida Single China Aster	5. Pentstemon Iris pallida Single China Aster
6. Stock Perennial Aster Zinnia Iris in variety	6. Stock Perennial Aster Zinnia Iris in variety
7. Anemone coronaria Persian Ranunculus Perennial Blue Flax Peony	7. Anemone coronaria Persian Ranunculus Perennial Blue Flax Agapanthus
For the Heights	
8. Chrysanthemum Purple Petunia	8. Chrysanthemum Salvia leucantha
Oriental Poppy	Helianthemum angustifolius Canterbury-bell
9. Delphinium Snapdragon	9. Delphinium Salvia farinacea Salvia pitcheri Snapdragon
SHRUBS	
A Spiraea thunbergi	Diosma
B Weigela	Quince
C Bechtel's Crab	Bechtel's Crab
D Persian Lilac	Persian Lilac
E Flowering Almond	Flowering Almond
F Forsythia	Jasminum primulinum
H Hedge of Common Lilac	Hedge of Ceanothus cyaneus
TREES	
Flowering Peach	Cornus florida
Tilia	Platanus racemosus
Ulmus americana	Acacia alata
Magnolia soulangeana	Magnolia soulangeana
Crataegus oxyacantha	Crataegus oxyacantha
Crataegus lavallei	Crataegus lavallei
Ginkgo	Ginkgo
HEDGES	
Thuya occidentalis	Monterey Cypress

SHADY BORDER ALONG PLEACHED WALK

Same plant materials would be used for this border both in the East and the West.

Edgers	*Middle Ground*	*Heights*
Nemophila	Funkia	Acanthus
Nemesia	Hemerocallis	Foxglove
Brachycome Daisy	Morea	Thalictrum dipterocarpum
Myosotis	Heuchera sanguinea	Campanula grosseki
Primula in variety	Ferns	Anemone Japonica in variety
Ajuga		Columbine in variety

Photograph by Mattie Edwards Hewit

A LITTLE LESSON IN GARDEN MAKING

Here is inspiration for the gardener who enjoys doing things himself—this delightful little walled garden was built in spare moments by its owner, Mr. Carl D. Bushnell of Rosslyn Farms, Carnegie, Pa., after a design by Elliott & Leonard, Landscape Architects. It is a rather more ambitious project than the amateur ordinarily dares to tackle but Mr. Bushnell's success certainly proves that, given a good initial design, almost anything may be done by the man at home

Dahlia Growing is So Easy!

CHARLES H. CONNORS

Department of Ornamental Horticulture, New Jersey Agricultural Experiment Station

f. Connors is known not only he Dahlia world also as the man discovered why k Hydrangeas sometimes blue

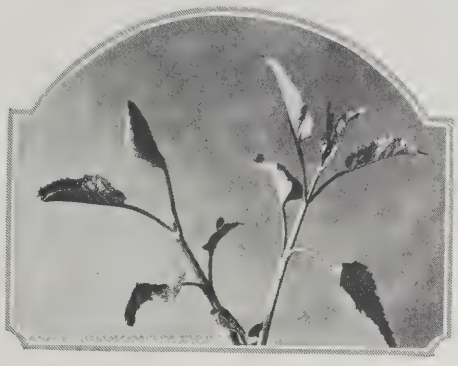
THE Dahlia will give more satisfaction with a minimum of care than any other flower. This does not mean that any variety of Dahlia, planted anywhere, will yield good results. It does mean that with the proper varieties, planted under proper conditions (and you can give them), one can go on a vacation a month and upon returning have a isfactory harvest.

A well-drained soil that is retentive of isture is best. In other words, the hlia requires plenty of moisture but l not tolerate wet feet. A sandy soil is al from the standpoint of drainage; a y soil is ideal from the standpoint of isture retention; the sandy loam soil, of decayed organic matter, gives the t combination of conditions, and this be approximated in any garden.

ly the use of sifted hard coal ashes any evy soil can be opened up so that it will n more readily. To this should also added manure or decayed organic ter like leaves, vegetable wastes, and n. A light sandy soil can be made tntive of moisture by the use of ma-, etc. For spring applications, the aure should be well-rotted. To get a d mixture of the soil and any ma-ls added, it is wise to dig the soil s smooth roughly, then spread the ma-ls and dig again.

Preparation of the ils of utmost impor-ne. The finest plants hve seen were in a ren in which special ik were taken in eparation. Originally e soil was dug to a pt of 8 inches. Each ar this was increased rning up 2 inches subsoil until now the il is turned over an-ual to a depth of inches. All vegetable sides were saved and ter the Dahlia roots d been harvested, all ave and other waste were dug under lightly, leaving the heavy digging until spring. This resulted in a deep, well-drained soil, full of organic matter, almost ideal for the Dahlia.

The importance of organic matter in any garden soil cannot be over-emphasized. When well rotted manure cannot be obtained for spring digging, long or strawy manure can be dug under in the autumn. The use of cover crops is also advisable. Where Rye or Wheat can be grown, the seeds can be sown broadcast after the middle of September. The cereal will grow in the spring and a large amount of organic matter can be turned under. It is wise to dig cover crops under at least two weeks before planting is to begin, and sooner if the cereal makes so much growth that it cannot be covered when dug.



Pinching-back at this stage develops low plants requiring little or no support (*see text on page 328*)

Disbudding to increase size of flower should be done when the center or crown bud is about the size of a large pea; disbranch to increase length of stem at the same time

The Dahlia requires relatively small amounts of fertilizer for a maintenance ration. An application of a mixed fertilizer containing about 2 per cent. nitrogen, 8 per cent. phosphoric acid, 4 to 10 per cent. potash at the rate of 1500 pounds to the acre or 1 pound to 30 square feet will usually be ample. This can be obtained by the use of ground bone at the above rate, adding muriate or sulfate of potash at the rate of 1 pound to 250 square feet. Broadcast and cultivate in before the plants are set.

The Dahlia does not require much nitrogen in its early stages, and an excess will cause it to go to tops and no flowers. After the flower buds have set, nitrogen may be added as a stimulant, in the form of manure water, sheep manure, tankage, dried blood, and even nitrate of soda if it is used with discretion.

Dahlia tubers may be planted any time after danger of frost is over, and plants about a week later. For easy culture, however, it is wise to defer planting until about two weeks later, because the plants will require more attention to watering and fertilizing during the middle of summer. The reason is that early set tubers and plants are apt to come into bloom in July and August and the plants will harden up and not produce good late blooms unless watered and fertilized during that period.

To escape attacks of cutworms, tubers should not be planted until such a time that the sprouts will appear after about June 15, and plants should not be set

(*continued on page 328*)

Dahlia grown with central axis disbudded and disbranched to form low secondary branches, a most satisfactory method

Plant pinched twice—note low bushy growth, support made of two laths, straw mulch to conserve moisture

Dahlia plant allowed to grow at will, every bud opening, resulting in ragged flowers borne before season

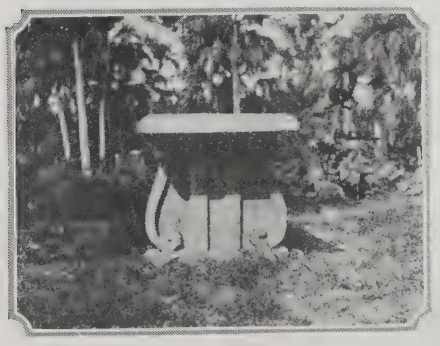
Greek vase as the centr feature of a little garde pool and one of a numb of garden ornaments ma by the author

Making Your Own Garden Ornaments

The practical process step by step

EDWIN W. FOSTER

MAKING garden ornaments or furniture from cement is a practical and really absorbing recreation for the man who likes to work about the place and has patience plus a little common sense. A seat, an urn, or a sundial will often give both scale and relief to even a small and perhaps otherwise not very interesting garden. Each job is, of course, an individual problem and whether it is a bird bath or fountain or whatnot the first step is the design, and a few homemade examples are given here—but after all they are only examples. The great joy of creative work is missed by merely copying someone else's plan. The forms shown have been used times enough to prove their practicability and so are a safe starting point.



End of garden seat as it looks when finished, sketches on opposite page give details of construction

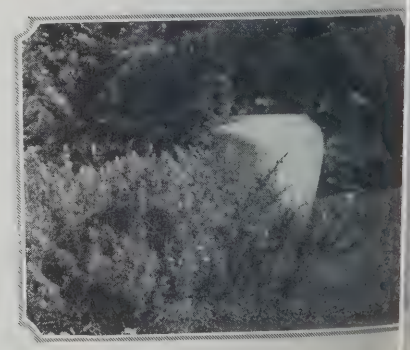
This bird bath of sturdy proportions is another example of successful home handicraft (see page 269)

Let us then start with the Greek vase. The chief virtue of this design lies in its simplicity; and a little practice in using portland cement will convince the beginner that simplicity is a very great virtue indeed. The construction of the va divides itself naturally into the follo ing steps: making the form and mixi cement; making the core in order have a hollow and not a solid vase; cas ing or pouring the cement; and removi the vase from the form and finishing.

Since the same sequence applies all the urns or vase forms of whatev shape, and constitutes the whole pr cess in each case, it will now be tak up in detail.

Making the Form. It is assumed th the beginner has no commercial for and very limited facilities, just the to to be found in the average home.

The drawing (Fig. 1) shows a va twelve inches high and ten inches in largest diameter. The dimensions not arbitrary, of course—a vase of t



Because of its simple lines the Gree vase looks well almost anywhere and here effectively placed among evergreen

rpe may be made of any size; but if the mensions are changed, they must be anged proportionally (i.e. a twenty-four ch vase must be twenty inches in diame-r), otherwise the general shape will be tered with the possibility of securing unsatisfactory shape. First make a ll-sized drawing as shown in Fig. 1. his may be on cardboard or drawing aper. Beginning at A at the center of e top line cut out with a pair of scissors ound to B (center of bottom line). ith this paper pattern, trace the out-ne of this half of the vase on to a piece quarter-inch pine or other available in wood. Cut to the line and smooth e edge with sandpaper.

You now have a wooden template, ig. 2) shaped like half of the cross sec-n of the vase. This of course should be ade with care so that the curved out-e is smooth and 'fair,' without lumps 'kinks.' Remember that your vase going to be a reproduction of this nplate and will reproduce all defects.

Construct a wooden box twelve inches ig, twelve inches wide and six inches ep. It will be the exact length of the se but two inches wider. This box (Fig. is to have a bottom but no top and it kes the later steps easier if it be put gether with screws, rather than nails.

At the centres of the o ends (A and B) of box cut two slight oves $\frac{1}{8}$ inch deep with aw or jackknife. Fas-e at A and B on the nplate a wire finishing l. These finishing nails nto the grooves A and suspending the tem-te in the centre of the , as shown in (Fig. 3). e template must fit ih just enough play so at it can swing freely. he box is now to be ld with cement except the space touched by

the template which is used as a sweep, being moved back and forth on its axes as the cement is poured into the box.

Mixing the Cement. Use good portland cement, and sifted clean, sharp sand.

Fig. 6. 'Onyx' vase—one half form removed; the color effect was obtained by pouring alternately white, black, green, and red cement (process described on page 344)

Sift the sand through a sieve made of ordinary wire mosquito netting. This is very important as the object is to secure a smooth form, which will be impossible if stones or gravel are present.

The proportion of sand and cement should be one to one—equal proportions, as the form must be strong and may have to stand hard usage.

Having mixed the dry sand and dry cement thoroughly, mix with the least possible amount of water.

Should the mixture be too wet it will be practically impossible to make this form with the 'sweep' method. As you move the 'template sweep' slowly back and forth should the mixture 'slump down,' it is too wet, and a little dry cement may be sprinkled on; but this is unquestionably the most critical step in the process, and calls for much patience.

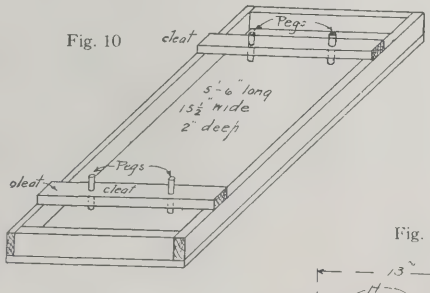
Be sure to fill the box to the extreme top and level off with a straight edge. Let the form stand for half an hour, and then go over all the edges with a small trowel till they are as sharp and as perfect as possible. When the form is as perfect as you can make it, allow it to stand for twenty-four to forty-eight hours.

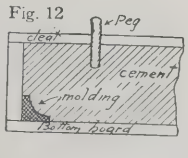
Now go over the inner curved surface with a piece of medium emery cloth, make as smooth as possible, sprinkle with water and allow to stand over night.

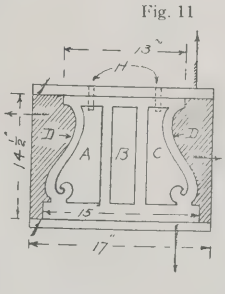
The following day take the box apart, lay the half form just made aside, and putting the box together, repeat the process, making the second half of the form.

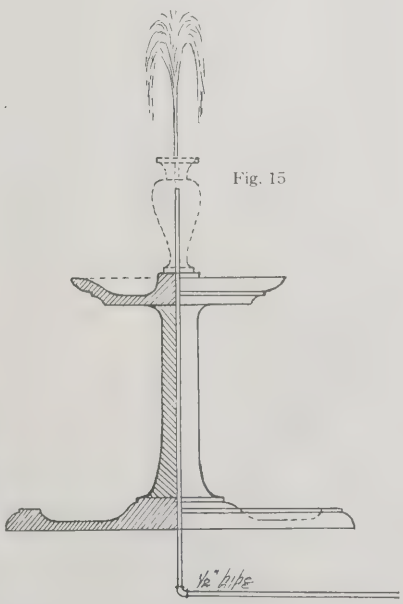
When these two halves are dry (i.e. have taken on the whitish color of a cement sidewalk), paint them inside with ordinary white paint (white lead and linseed oil). Allow this to harden and the form is finished.

The Core. As we are not making solid chunks of cement but hollow vases which may be used for plants, the core, shaped to correspond with the inside hollow space must be provided. This can be done while the *(continued on page 344)*









Figs. 10, 11, 12 (above) and Fig. 14 (lower right) show the various steps in the making of a garden seat (described page 344). Fig. 7 (left) is a scale drawing of an attractive type of vase which may be finished in 'onyx' (see photograph above)

A combination fountain and bird bath may be made as outlined in sketch above (Fig. 15). Below the successive steps in the making of a Greek vase (Figs. 1, 2, 3, 4) are graphically shown and supplement the description on page 346

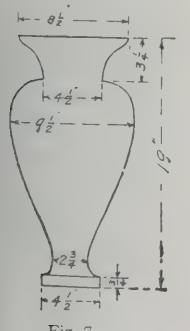


Fig. 7

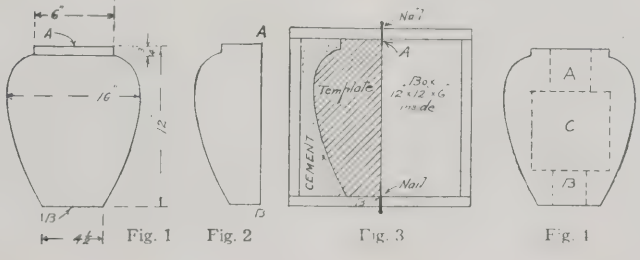


Fig. 1 Fig. 2 Fig. 3 Fig. 4

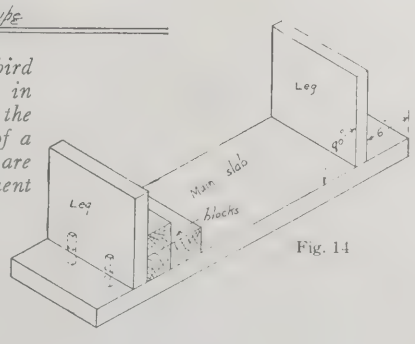


Fig. 14

Trim of line, supported on wall brackets, and equipped with both time and heat control, this electric range is the last word in efficiency and convenience. (Courtesy the Armstrong Mfg. Co.)

More Hands for the Housewife

Electricity the new servant in the house—tools and equipment to make housekeeping easy

WINNIFRED FALES

WHEN, in a recent interview, Thomas A. Edison donned for a moment the mantle of prophecy, he predicted that before long practically every household task would be performed by electricity, thus automatically solving the long-agitated problem of domestic help. Certainly this prophecy seems not only reasonable but well on the way to fulfillment when one surveys the present season's offerings of electrical equipment and considers the amazing versatility of this new servant in the house.

Like the fabulous jinn of the Arabian Nights, who could change their forms at will, this mysterious but obedient genie of the wire assumes varying guises in which it manifests itself as light, heat, or power according to circumstances. As the first, it illuminates our homes; as the second, it warms our rooms, irons our clothes, and cooks our food; and in its third manifestation it performs all of the most burdensome mechanical labor of the home, without grumbling or complaint, and far more perfectly and swiftly than it can be done by human hands.

Leaving aside the question of illumination, which is too large a subject for adequate treatment here, let us consider how the tools and equipment for producing power and heat may be profitably employed to eliminate drudgery and add to the comfort and convenience of our homes.

First of all there is the three-times-a-day problem of preparing and serving meals. This involves the care and preservation of foods, and the washing of dishes, as well as the many operations connected with actual cookery. Set the electric genie to work in the culinary department and what is the result? For one thing, food will remain fresh longer if kept in the intensely cold, dry storage chambers of an electric refrigerator. This means that less time will have to be spent in marketing, because perishables can safely be ordered in larger quantities. It means too that foods designed to be served cold will be more palatable because thoroughly chilled, and that the family bill of fare is likely to be pleasantly varied by means of the numberless frozen or frappéd dishes which are so easy to prepare in the refrigerating chamber of this new type of iceless icebox that a whole new cult of cookery has been developed.

It further means that the apartment dweller or her maid will be forever ema cipated from the disagreeable necessi of lifting heavy, freezing blocks of i from the dumbwaiter to the icebox seve times a week, and that those who live houses not provided with an outside d opening into the ice chamber of the frigerator will no longer suffer the a noyance of a mingled track of drippi and muddy footprints extending from t back door to the icebox every time the man calls. As a final advantage, the el tric refrigerator requires cleaning l frequently than the ordinary type, cause there is no accumulation of moist on the interior walls, nor any dirt relea by the melting of ice; and of course th is no drip pan to be constantly watc as in thousands of homes where the icel cannot conveniently be connected w the sewer.

There is no denying that an elec refrigerator is more expensive to ins than one of the accustomed type, but gain in convenience and time-saving well worth the extra investment and operating cost is approximately the sa the exact ratio depending, of course, u the rates charged for electric current

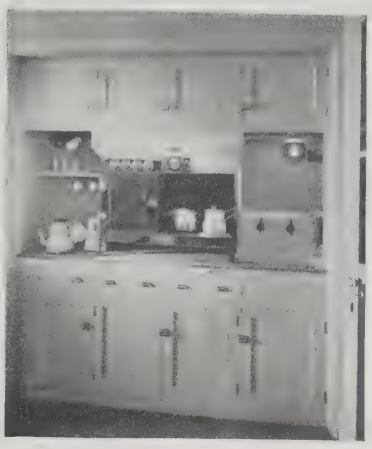
e individual community. Owners of ll-built iceboxes can effect a substantial ving by having a refrigerating unit in- lled instead of buying a complete new rigerator.

Functioning through a compact little tor, the electric servant makes light of h ordinarily tedious operations as mix- batters and doughs, whipping eggs to fluffiness of a summer cloud, mixing yonnaise, mashing potatoes to creamy othness, grating cheese, straining rees, slicing vegetables and chopping ats. The attachments are instantly ad- red and at least as easy to clean as d tools of corresponding type. The or can be used anywhere on a shelf or le of convenient height, but is most sfactory when mounted on a small celain-topped cabinet specially de- ed to hold the varied assortment of chments in the smallest possible space.

he work of preparation finished, the ice of cooking apparatus may be made n a variety of types and styles. Porta- le electric grills, egg boilers, toasters, ing dishes, waffle irons, and coffee olators make it possible to prepare a iy elaborate breakfast or luncheon on dining table, or a jolly little supper or ft-theater snack on a tea wagon heled up in front of the living room fire- lae. Then there is the electric fireless ker which supplements the gas range h there is long, slow cooking to be or; and at the top of the list stands electric range with four heating units arying capacity on top, and an in- lled oven with thermostatic control.

The electric washing machine can be wheeled out of its corner and the clothes passed through the wringer directly into the set tub. At right, the ironing machine. (Courtesy N. Y. Edison Co.)

One of the latest models is supported on strong brackets attached to the wall, leaving the floor clear for sweeping and mopping. It is equipped with time as well as heat control, thus enabling the cook to put the dinner in the oven as early as she



A completely appointed kitchen in a space no larger than that usually allotted to a double-doored clothes closet is made possible by the miniature electric range with its two 8-inch burners and good sized oven with a broiler. (Courtesy N. Y. Edison Co.)

chooses, set the thermostat and clock, and take her departure for the matinée or afternoon bridge with a mind at ease. At the appointed hour the faithful genie will turn on the current, and when the indicated temperature has been maintained for the desired length of time, will turn it off again, the cooking being completed by retained heat with no further cost for electricity and no possibility of burning. When the housewife or maid returns, the dinner is cooked and ready to serve.

It is worthy of mention that meats prepared in this type of oven show much less shrinkage than when other fuels are used, and that vegetables may be cooked in the oven with so little water that they are virtually steamed instead of boiled, thus preventing the loss of their valuable minerals and vitamines.

This super-range is a credit to the household in its immaculate dress of white porcelain enamel trimmed with polished nickel, and in addition to the above-mentioned details it is equipped with a toaster, waffle iron, and an aluminum griddle, and has on either side a convenience outlet for connecting a percolator, electric iron, floor waxer, or other portable device.

The meal served and eaten, the once dreaded task of washing dishes is briskly and uncomplainingly performed by the electric servant. The washer, which may be either stationary or portable, is filled to the prescribed level with scalding soapy water, the dishes scraped and stacked in their proper racks, and the lid closed. Then a switch is turned, and the genie does the rest. After being rinsed with clear water in the same manner, the dishes may be either left to dry themselves, or dried by hand.

In the average apartment and in many small houses, the kitchen must serve also as a laundry, and for this reason makers of washing machines and electric ironers have thoughtfully provided a number of models with smooth porcelain or aluminum tops which can be used as tables six days in the week. Washing machines are of several types—the dolly, vacuum cup, oscillating, etc.—and all will give satisfaction and wash the (*continued on page 310*)

Corner of a modern kitchen, equipped with compact electric refrigeration unit, and ventilating fan installed over the window to insure a comfortable temperature and freedom from cooking odors. (Courtesy Jewett Refrigeration Co.)

Looking toward the little house, after renovating, from the naturalistic garden at the rear

The old kitchen wing now converted into the most livable of living rooms

The Fun of Fixing Up a Farmhouse

How a little old house became a little new home

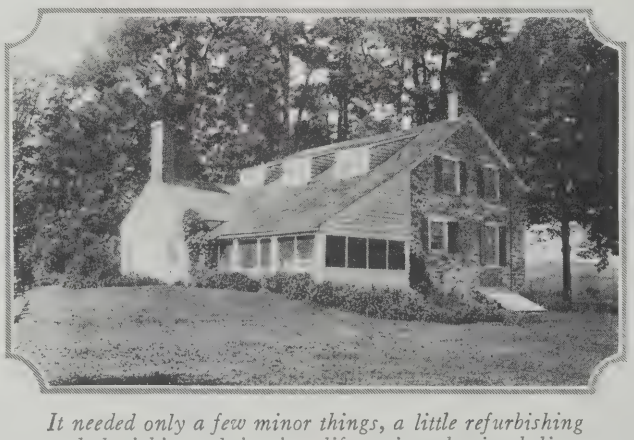
KATHARINE HASBROUCK

FOR years, on the highway between Ellenville and Kingston, New York, I used to pass a fascinating little old stone farmhouse built by the early Dutch settlers of that valley. Then one day at last by a bit of good luck it became my own. Set in a group of wonderful old Locust trees and facing the Catskill Mountains the house offered all sorts of possibilities —and by no means least among them, ideal conditions for the development of a garden.

At the rear there was a frame wing which had originally served as the kitchen. Since it faced south upon a delightful flagstone porch I decided that it should become my living room. It had a huge lovely fireplace with a Dutch oven and crane, and also fine exposed beams. It did not need a great deal of remaking and the only serious alteration was the addition of one more window facing east. A little dark store-room on the north was successfully transformed into a pleasant small kitchen by the addition of a window; and the large kitchen pantry was so divided as to make a small pantry and a front hall with a closet. A bedroom and bath were planned on the south downstairs, also a dining room opening off the kitchen.

The second story did not need a great deal of alteration to make it, too, very cozy and habitable. Some dormers were added and an opening made into the attic which is used as a storage space and, though small, it actually will hold eight trunks. The second floor as now arranged has two bedrooms and a bath.

From the beginning it had a cozy, homey air which drew one's heart and fancy



It needed only a few minor things, a little refurbishing and cherishing to bring it to life again—the simple lines and mass were kept unaltered (compare with smaller picture above showing house when originally acquired)

Since the chimneys of old houses are often defective, it seemed wise to have them entirely rebuilt—all three of them —one for the heater, another for the range, and a third for the fireplace.

Electricity was installed throughout and that, together with modern plumbing and steam heat, transformed the old homestead into the pleasantest and most comfortable of modern dwellings. Of course, in making these changes we were careful not to disturb the original simple lines of the house and to preserve its old grace everywhere intact. The old well still works, and supplies us with delicious drinking water. Two cisterns, one old and one new, furnish water for general use.

After the house was finished then came my garden! The wonderful trees made a fine starting point. Besides them, nothing was on the place. After the trees had been pruned and dead branches cut out, we began work on the garden itself. First of all, I started a seed-bed for perennials and bought some evergreens for foundation planting, not evergreens that in time become huge trees such as I see in a great many foundation plantings but dwarf things that will stay in proportion. At the front entrance, which (continued on page 3?)

Photograph by Mattie Edwards Hewitt

STONE LENDS ITSELF TO THE PICTURESQUE

There is certainly no monotony in the surface of this structure where stones of all sizes and shapes form a lively pattern—the little jutting semi-circular window box is entertaining, the over-treatment of windows and door arch most adroit. This house, designed by Heacock & Hokanson for Mr. Frank M. Graff, is set upon high land with a lovely sweep across the valley to facing hills. Other views appear on pages 278, 279

Gothic chair, illustrating the fad in furniture, and suggested no doubt by the Gothic in domestic architecture

Ladder-back, a development of the ordinary slat-back of the same period, with the ornamentation centered in the slats or ladder rounds of the back

Large Chippendale: observe the trace of Chinese influence in the straight leg, the ornaments at the angle formed by the leg and the seat, and the underpinning

Ribbon-back, illustrating the French influence which is seen in the liberal if not excessive ornament

In the Workshop of Chippendale

A life story written in wood

GEORGE DREW EGBERT

NO STUDENT of the golden age of furniture building, which covers the 17th and 18th centuries, can afford to overlook the contribution to the glory of that period that was made by the various woods that constituted the material molded during those years by the hands of artist cabinet-makers. In admiring the design, it is easy to overlook the stuff whose qualities made the working out of that design not only possible but beautifully effective. The ornamentation of the Jacobean period would have been impossible if oak had been the only material available; and the gorgeous quality in Chippendale's amazing conceptions wrought in wood would have been equally impossible without mahogany, combining, as it does, sensitiveness to the chisel and the lathe, and a golden glow that lurks in its fibre. It is indeed a startling coincidence that, when the artist was ready with his designs, nature was ready with the material out of which those designs could be woven.

So we find that just as the advance from the Elizabethan and Cromwellian periods to the Jacobean period was marked and indeed made possible by the use of walnut instead of oak, so the movement from the Queen Anne period to the Chippendale period was marked by the change from the use of walnut to the use of mahogany. Walnut became scarce in the early days of the 18th century, largely because the Duke of Marlborough had commandeered all of the walnut trees in order to make from them the stocks of his rifles. Some new wood for cabinet-making was sorely needed, and though *styles* in English furniture were largely imported, th recognition of the unusual qualities of th new wood, which combined beauty color with utmost durability and whi has revolutionized cabinet-making, w the direct result of an Englishman's o servation. The discovery of mahoga was an English discovery.

Georgian: note the trace of the Dutch period in the general shape of the top rail and the marks of the immediately ante-Chippendale period in the ornamentation, also the modification of the originally plain splat

A hundred years and more before t cabinet-makers experimented with it as substitute for walnut, mahogany was fi introduced into England, and by no l famous a man than Sir Walter Ralei It had been discovered by accident. C of Sir Walter's ships was repaired w this wood at the Island of Trinidad, a a ship's carpenter noticed its beau hardness, and durability. For more tha century it was admired within a limi circle, but during all that period no seems to have thought of it as an obj of commercial exploitation. Just here another of many illustrations of strange turns of fortune upon which gr movements often depend. One Dr. C bons happened to employ a cabinet-ma named Wollaston to work over s boards that had been sent home by Doctor's brother-in-law. At once beauty and soundness of the new wood w recognized by both, and a revolutio English furniture (*continued on page 8*

Catch 'Em Young!

And that's all there is to the problem of having sweet, flavorful, tender vegetables from your own garden

FRANK A. WAUGH

NOW that the dietitians have discovered vitamines it is up to the rticulturists to supply the market. A mber of readjustments will obviously be quired in the growing and marketing of sh vegetables. As a matter of business ther than philanthrophy the market rdener will undertake to get his vitaines to his customers in the tastiest ssible condition. Thus the consumer conmes more and gains in health while the oducer sells more and gains in wealth. erybody wins; and that's the very defiion of good business.

For myself, I must testify that I had go to Europe to learn to like some of the mmon garden vegetables; and this in te of the fact that I was born and ought up on a good farm. My father ew how to grow good stuff and my ther knew how to cook it. At least were better off than most of the neighrs. Yet when I got to France and had ng fresh carrots served, it was like ding a new and hidden treasure. These rots were about one-half inch in diater, less than one-tenth the size of the grown carrots usually sold to this day American markets. They were quickly wn on rich soil and were as tender as ter. They were also rich and sweet in or, far surpassing anything I had ever gined a carrot could be.

Then I went to Germany ere I saw them growing, ing and eating kohlrabi. ey seemed to be very d of this strange weed ch in our gardens is nothmore than a curiosity. l the reason was plain. ead of waiting for the ble swellings to be full wn and completely ligni after the American ner these canny Gerns harvested them when were not more than an in diameter. At this e they were as tender young carrots and as ate in flavor as early asparagus.

Golden Ball Turnips, if cold-packed when small, may be enjoyed all winter

In later years I lived for some months erlin and grew to be very fond of anr vegetable treasure which is always popular in that local market. These the famous 'Teltower Ruben.' en, of course, is merely the name for turnips, but these are no ordinary turnips. Teltow is a leading market gardening section near Berlin where there is a rich muck soil much like that at Kalamazoo, Michigan, or Sanford, Florida. In this soil the turnips are sown when the weather is most favorable and are grown as expeditiously as possible. When they are about as large as the first joint of a flapper's thumb and fully as juicy they are pulled and sent to market. Cooked with corned beef and sauerkraut or in a German-Irish stew they are fit for the gods; and it is a fair guess that if there had always been a plentiful supply of Teltower Ruben there would never have been any Götterdämmerung. The gods would have stayed awake and kept on eating.

These Teltower Ruben are so very famous that American seedsmen always offer them for sale. I have bought these seeds and grown these turnips in America, but they are not any better than our regular native varieties. After trying the experiment for many years I am convinced that we can do the trick as well as anybody in France or Germany and that the whole rigmarole may be stated in a very simple formula; viz., select a high-quality, quick-growing variety, grow it rapidly in rich, clean soil, harvest it when still very small, cook and eat it as soon as possible.

This formula applies to carrots, beets, turnips and kohlrabis, possibly to one or two other crops.

The new gardener, starting in to use this formula, would certainly try succession sowings—that is he would plant a few turnips and a few carrots every ten days or two weeks all summer. This succession system works fairly well with carrots but fails with turnips for the reason that during the warm months the growing turnips are hopelessly infected with the turnip maggot which won't let the crop alone even long enough for the quick harvest which we contemplate.

In our experience the best answer to this is the cannery. We grow our turnips very early in the spring or late in the fall and thus escape (usually) the turnip fly. When the little turnips are at their best they are cold-packed into pint cans and the deed is done. It is a very simple, easy process and it enables us to enjoy all through the winter the very pick of the whole year's turnip crop.

Delicious, dark-fleshed Chantenay Carrots just the right size for home canning

Almost any variety will serve, but we rather prefer Golden Ball, a tender sort which is almost too delicate for general cropping but which will get along very well through 40 days of the best turnip weather of the year. Extra Early Milan, a favorite variety in American markets, does especially well under the proposed formula. It will come through in 30–35 days, and is best canned when the roots reach a diameter of a 'two bit' piece.

Carrots require a little longer, but are less susceptible to insect attack or warm weather. We prefer the varieties with quite dark flesh, as they look the prettiest in the cans and the most ornamental in the winter stew. Either Chantenay or Danvers answers the requirements. Both are standard market sorts, and both are cultivated in sundry local strains, all available for the home cannery.

It is worth mentioning in passing that this canning system has been used in Germany on the Teltower Ruben for more than a quarter of a century, at least; and this observation gains in weight when we consider that Germany never did have the 'tin-can disease' like America, and that 25 years ago the canning of vegetables was comparatively rare.

So that's the system for carrots, beets and table turnips: grow them rapidly, in rich soil, at the most favorable time of the year, harvest them when quite small and very tender, can them at once and live happily ever after.

And it has long been understood in larger fields that in order to live happily it is important to catch 'em young.

A large-dial, circular clock in the familiar blue-and-white willow pattern made especially for the kitchen. (Seth Thomas Clock Co.)

Color Transforms the Kitchen

A. LOUISE FILLEBROWN

CINDERELLA was no more startlin —and delightful—in her sudden me amorphosis than is the kitchen in i recent emergence from a drab waste wood and tan paint, or a monotonou glitter of white—sanitary but uninspi ing. The present-day housewife has learne to love color, both in her clothes an in her home. When we brought darin color into the main rooms of the house w thought we had gone far towards makin living pleasanter. But the modern woma even with all the labor-saving devic at her command, still spends many hou in her workshop, the kitchen, and sh insists that color surround her there to Nowadays there are water-proof pain and materials at her disposal, and th makers of kitchen utensils, stoves, ic boxes, etc., have followed the vogue f color with the result that to-day's kitch is the smartest, quaintest place in t world.

PLEASANT COLOR SCHEMES

There are many examples of color kitchens. They range from the bizar full of modernistic designs in deep purpl oranges, and reds, to the dainty cool gre and yellow kitchen, fresh as a spring g den and cheery as sunlight. Gray is s a good background color, but instead white and possibly light blue used w it, the gray kitchen has a smart bl and gray blocked floor, and scarlet p and pans hanging on black enamel hoo There are red organdie curtains at windows tied back with black oilclo

An outstanding example of what color can do to the kitchen is this room decorated by Ethel A. Reeve. Gray walls and woodwork and black, red and cream floor; the curtains unite these colors that are also found in the black and red kitchen clock and pots and pans

he enamel parts of both stove and ice-ox are red, trimmed with black; and ven the handle of the broom, the dust-an, the garbage can, the handles and ords of all electric equipment are in the ame cheery tone. There is enough black o balance this red—black edges to the hina closet, a black line on the wood-ork, and a wide baseboard painted lack, for both decorative and practical easons, since mop marks still demand a ark baseboard. Recently I saw black nd red checked oilcloth which would be boon to the person with a taste for the ovel in decoration. It comes in many ther color combinations also and could e charmingly used with checked ingham curtains of matching hue.

The pale yellow and green itchen is lovely also. Yellow walls, ith gray and green floor covering, ots and pans of a cool green, green nd yellow swiss curtains, all com-ine to make an inviting place to ork. The stove and icebox in this ise are gray and black, but there ere some yellow utensils among ie green ones. Bits of black add nartness here also, and even the room comes with black bristles ipported by a gay yellow handle immed with black lines.

Wallpaper is used now on kitchen alls as well as paint. In many ses a pattern is better than plain lor, especially if the room be ther large, and the many smart tle floral designs now available ake charming kitchen back-ounds. If varnished after it is ng, to give a hard, shiny surface at may be washed with a damp oth and soap, the paper is much re serviceable. Kitchen curtains o should be of easily washed ma-rial. Dotted swiss, organdie, ging-m, silk mull, are excellent, and a od deal of the colored oilcloth is ed either as trimming, valances, in some cases for the whole rtain. Bound with a contrasting or, its shining folds are smart d consistent, and it lasts a long ne. Wooden tabletops may also covered with this decorative terial, and it makes charming lf covers, especially if the edges deeply scalloped and allowed hang over a little.

All the materials needed for your chen furnishings have swung o the color parade. There are en, yellow, red, grey, lavender and rose ored pots and pans. I believe there are ctric utensils with all these shades in ir handles and cords. Decorative lino-em for the floor comes in a wide variety designs and colors, and of course wall-paper, paint and curtain material have an endless variety. The larger things—the stove, icebox, sinks etc.—are not found in such diversity but I have seen them in green and black, gray and black, blue, black and white, and yellow, a sufficient variety of combinations to harmonize with almost any scheme. And to meet this need are the new enamelled wares that are non-chippable and serviceable in their gay coats of red, green, yellow and blue. Even the draining basket for our dishes may be had in any desired color, while kitchen spoons and forks, and bread knives have enamelled handles that are varicolored to match the rest of the room.

Green and white make a cool workroom. All cabinets and fittings are striped with green, the enamel ware being an all green color that contrasts pleasingly with the ivory walls and black and white floor. (John Wanamaker & Co.)

Here the colors are tan, green, orange-red—colors echoed on the knives and forks with green handles, the table set with dishes in the orange, green and white that decorate the cabinet. The floor is of green inlaid linoleum. (John Wanamaker & Co.)

The only trouble with all these delightful novelties is that they make us so dissatisfied with our well-worn, old-fashioned pots and pans. We must all run out and start a new kitchen collection, and many standbys with months of wear in them yet go into the discard. However, a colorful kitchen it must be, and after the main objects are purchased, a liberal use of bright lacquer is an inexpensive way to help along the good work. The containers for sugar, flour, and the like may be most satisfactorily lacquered. Garbage cans, shelving, cutlery, holders, breadboxes, may all blossom forth effectively in a new dress over the old still serviceable material. Of course, pans used for cooking have to be of a more permanent finish, for heat will in time chip off any homemade covering. Not color alone, however, must the modern workshop have. Everything in this room, from curtains to pots and pans must be durable. And right here comes a new series of cooking utensils that seem to be the very last word in practicability and usefulness. This is the new cast aluminum ware that cooks without water, that holds all the valuable vitamines and mineral salts in the vegetables instead of having them thrown out with the water in which the vegetable has been boiled.

This seems almost to usher in a new era of cooking for not only do these utensils save the vitamines but they also save gas. The whole secret of this new ware lies in the heaviness of the aluminum which stores up and holds the heat so that the gas or electricity may be all but turned out, the foods literally cooking or roasting by stored up heat. And the foods do not burn in these waterless pots either, which seems almost magical. It is true nevertheless.

Tired housewives are not met to-day, nor worn-out homemakers. Labor-savers, step-savers, practical utensils are to be had merely for the seeking, with the logical result of unwearied nerves. The kitchen, odd as it sounds, is actually the soul of the house! We cannot have good health without good meals, not happiness with tired bodies and nerves. The joyous colors, the practical devices of the modern kitchen make such things possible.

Welcome then the cheerful kitchen! Housework loses much of its monotony, dish washing in a shining yellow dishpan loses its air of drudgery. Our home workshops will never be allowed to become drab and uninteresting again, of that I am sure, and in these rooms—attractive or quaint—there has entered a whiff of the spirit of play to lighten and brighten everyday tasks.

MR. FRANK M. GRAFF'S HOM

at Blairsville, Pa.

HEACOCK & HOKANSON, *Architects*

PHOTOGRAPHS BY MATTIE EDWARDS HEWITT

STONE is a fascinating medium, uniting as it does sturdiness with the picturesque, and the Pennsylvania countryside is liberally sprinkled with interesting examples of stone-work old and new. This sprightly modern house is attractive in mass and in detail and the gardened setting contributes to the whole effect—clustered trees, diversified foliage, bright-bloomed perennials, and darker-hued evergreens, all soften and enrich.

When a Man Is His Own Carpenter

Just how to make those trellises that add an attractive touch to porch or garage

L. M. ROEHL

THE lengths of the trellises have not been given in the drawings as they depend on the places where they are to be used. The one marked A is a suggestion for the end of a porch. It is planned to add to the decorative aspect of the house as well as support a vine. The upright pieces and the long horizontal pieces at the top are made of 1 inch lumber, 1½ or 2 inches wide. Thinner material is unsatisfactory as the frame will bend out of the vertical position. Material ⅜ or ½ inch thick may be used for all the small cross-bars. The same width is used for the small pieces as for the long ones. The long members are assembled at joints with 6d. or 8d. common nails or flathead wood screws. The nails are clinched. The small pieces are fastened to the long ones with 3d. common nails.

If it is desired to fasten the trellis close to the porch the upper ends of the long vertical pieces are nailed to the porch frieze and the lower end to the edge of the porch rail. This brings the trellis very close to the screen and is objectionable from that standpoint as the vines will brush against and grow into the screen. The trellis is also in the way if it is desired to paint the house. Another way to fasten it in place is to nail the upper ends of the long vertical pieces to the ends of the porch rafters if they are exposed. Pieces of 1 inch wood as wide as the uprights and long enough to reach from them to the top of the edge of the porch floor are used to hold the trellis vertical and rigidly in place. If a plancher is used to board up the under side of the porch, angle irons may be used. One leg of an iron is screwed to the under side of the porch and the other leg to the uprights. The lower ends are then fastened to the porch floor with boards.

The trellis is finished by painting the same color as the rest of the house. This is easier to do before placing in position on the porch. A good way to proceed with a large trellis is to assemble it in sections, then painting each section while resting on saw horses or boxes and then fastening the upright sections in place first and the top part when the uprights are in position.

The trellis marked B in the drawing is a suggestion for decorating a garage. One such frame is placed at each side of the door or window, or if it is a double garage one may also be placed between doors. Dimensions are omitted as they depend on the width and height of space available. Horizontal pieces 14 inches long and a space between them equal to the distance between uprights makes a pleasing porportion. Since the trellis is nailed to the surface of the garage it may be made of material ⅜ or ½ inch in thickness and 1½ or 2 inches wide. The top may be rounded as suggested in the drawing or the two side upright pieces may be allowed to project above the top horizontal piece as far as the horizontal piece projects at the sides. The semicircular piece is laid out on the side of a wide board with the compass and cut out with the keyhole saw.

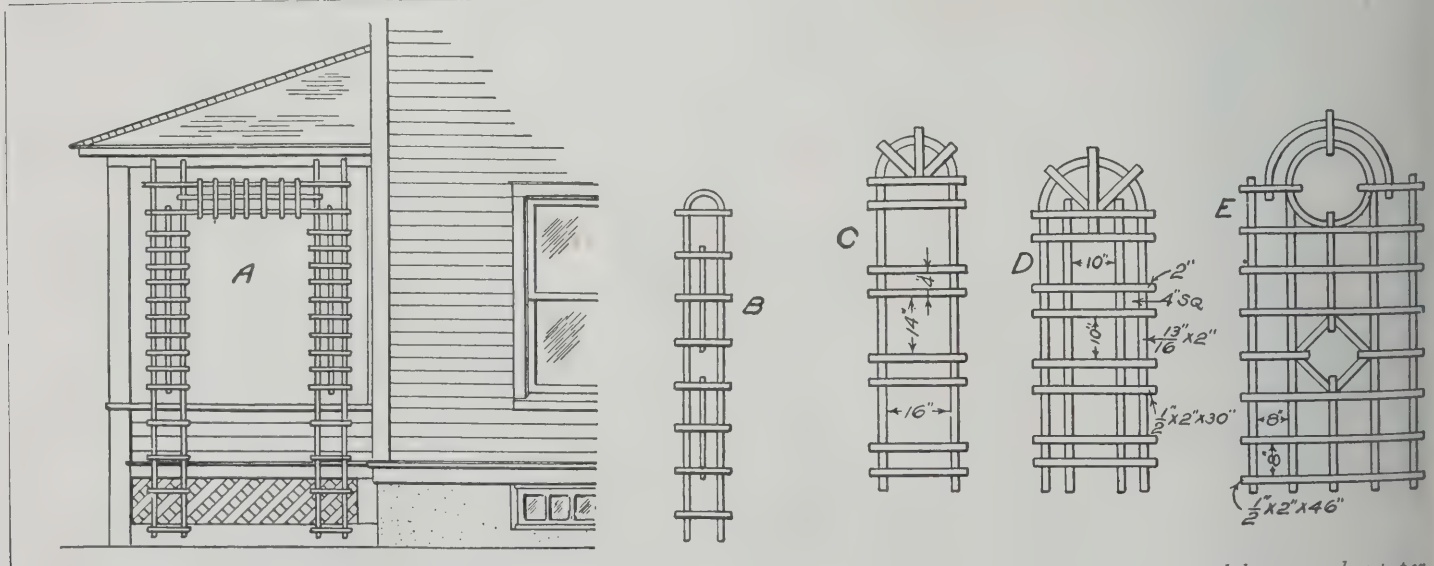
If the garage or other place where this trellis is used has the door and window casings trimmed with another color or paint than the body of the building the trellis should be painted with the same color as the trim.

The sketches marked C, D, and E are suggestions for trellises to be used at the sides of walls. Dimensions for spacing both the horizontal and vertical members are suggested. It should be kept in mind however, that the total length is optional and the space where the trellis is to be placed should be measured and the length governed accordingly.

If the trellis is nailed directly to the wall of the building thin material such as ⅜ or ½ inch may be used. However, if the vine is to grow around the pieces of the frame or weave in and out, it is far better to place the trellis some distance from the wall and it should then be made of 1 inch material.

These trellises are also painted of the same color as the trim of the house.

[The above article is reprinted from Mr. Roehl's very practical little volume on 'Household Carpentry,' copyright 19[illegible] by the Macmillan Company.]



Suggestion for decorative porch trellis is shown in fig. A, with details of construction above

An over-plain garage may sometimes be redeemed by one or two trellises of type B

Other designs which the handy man can make for himself are indicated in sketches C and D

A more elaborate and yet perfectly practical trellis for the home carpenter (sketch E above)

Even the beginner may successfully grow Coelogyne cristata which adapts itself to quite varied temperature conditions. Flowers pure white

Not All Orchids Are Hard to Grow

Quite the contrary, indeed, and with an ordinary greenhouse you can have a choice among the finest jewels of flora

E. A. WHITE

Professor of Floriculture, Cornell University

HAD always thought of them as sterious plants with tural requirements d to approximate n in the best of enhouses. I am con-ced now that many cies of Orchids are more difficult to w in greenhouses n are many other nts commonly seen. l any special cul-al requirements as mperature, atmos-ric moisture and conditions, are no more difficult to roximate than are the requirements for aniums, Coleus, Begonias or Roses vn under glass. They do not need to molly coddled,' neither will they stand ect, although I have seen Orchids ing a more successful effort to exist n neglected than many of the so-d 'ordinary plants not difficult to w.'

he fact that it takes several years to w a flowering Orchid plant from seed necessarily influenced the cost, so nids are not bought and sold as com-ly as other plants grown under glass. ever, research is now being carried in germination and the subsequent of seedlings and, with the newer ods, more Orchid plants will become lable in America, and naturally lower prices. One factor not to be overlooked is that Orchid plants are usually long-lived and will grow and flower for many years, whereas in most other cases new plants have to be propagated annually.

The Cattleyas (left) grow compactly and flower freely in winter. This plant in a 5 in. pot is 6 to 7 years old and carries ten blooms

Cypripediums demand a place in the amateur collection and as cut flowers are popular for their beauty and lasting quality (C. leeanum clinkaberryanum at right)

Because a proper amount of atmospheric moisture is one of the most important factors in successful Orchid cultivation some type of glasshouse is a necessary requisite. The right condition is hard to maintain in ordinary living rooms, but 'up-to-the-minute' construction is not essential. In fact, several of the most successful commercial growers began Orchid culture because their greenhouses were too antiquated to grow successfully other flowering plants! Orchids are, for the most part, shade-enduring (often shade-demanding), so that maximum light conditions are not necessary. Most species will adapt themselves to almost any type of house provided they have a brisk, moist atmosphere and a temperature suited to their particular needs.

Certain species grow in the tops of trees where there is an abundant circulation of air; some of the Cattleyas are illustrative of this type. Others grow on the trunks of trees. Still others are found growing on rocks or in leaf mold in which their roots are embedded and the atmosphere is heavy with moisture; Cypripediums dwell in such locations. Some species like Cattleya gigas or Laelia anceps thrive better, therefore, when elevated on stagings or suspended from the sash bars, while other species, Cypripedium insigne, for example, grow better in confined atmospheric conditions such as are found on benches in low greenhouses. As a rule, however, elevated stagings are used for most species.

The plants require different temperatures according to the particular section of the world from which they have been introduced. These are briefly as follows:—species from the tropics, East India, Java, Borneo or Madagascar, 65° to 70° F. at night; species from Brazil and the coastal

sections of northern South America, 60° to 65° F. at night; species from the higher elevation of northern South America and the Isthmus of Panama, 55° to 60° F. at night. In all groups the day temperature should be approximately ten degrees higher than the night temperature. It is not always possible to grow plants in the exact temperatures they would like but by wisely selecting certain places in a house where an average night temperature of about 60° F. is maintained, it is possible to grow many species from varied climates. For example, in the Orchid houses at Cornell University, where but one room is available for Orchids, the night temperature is 60° F. and those species which come from the tropics are on raised stagings or are suspended near the overhead heating pipes, and species from cooler sections of the country are grown in benches farther from the source of heat. Under such arrangements Phalaenopsis from the Philippines, Vandas from India, Cypripediums and other genera from northern South America, Cattleyas from the Isthmus of Panama and many Mexican species, grow with fairly good results. Odontoglossums are grown less satisfactorily under the climatic conditions of the United States because of the difficulty in maintaining a sufficiently low temperature during the summer months. In northside houses, however, where the atmosphere is kept continually moist and cool by frequent moistening of the walks and areas under the benches, Odontoglossums may be grown with a fair degree of success.

SOIL MIXTURES FOR ORCHIDS

I. Terrestrial Orchids: Calanthes. One half chopped fibrous loam, one fourth leafmold, one fourth sharp sand.

II. Semi-terrestrial: Cypripediums, Cymbidiums. One third chopped sod, one third leafmold, one third osmundine.

III. Epiphytal: (growing on tree trunks, etc.) Vandas, Phalaenopsis. Osmundine, i.e. osmunda fiber.

IV. Semi-epiphytal: Coelogynes, Cattleyas, Dendrobiums, Lycastes, Miltonias, Odontoglossums, Laelias, Zygopetalums. Three fourths osmundine, one fourth live sphagnum moss.

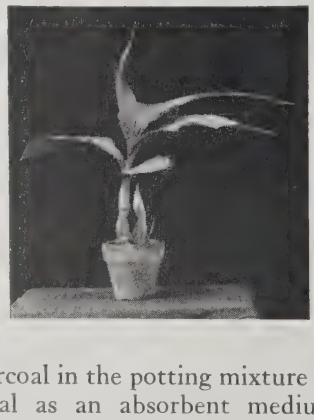
POTTING MATERIAL

The material used for potting should be the best quality osmundine (osmunda fiber) which is composed of roots of Osmunda Ferns. It is practically indestructible. It should not be too coarse and wirelike, neither should it contain too much of the fine, powdery material commonly found in the clumps of fern roots. Osmundine is spoken of frequently as orchid peat. An open, porous character in the potting material is essential, for while Orchids need an abundance of moisture about the roots, they also require much air and they are very intolerant of standing water about the roots.

Some leafmold is essential for the terrestrial species and for most semi-terrestrial. There is, however, the danger of leafmold becoming sour and acid, and so it should never be used in large quantities.

Sphagnum moss comes from bogs in various sections in the northern United States and the fresher it is, the better for orchid culture. Live sphagnum is not so liable to become sour quickly, and when it is fresh and green it has about the right water-holding capacity to insure healthy growth. It should not be used in too large quantities for it will then become 'waterlogged' and sour.

In an ordinary greenhouse one of the easiest Orchids to grow is Calanthe veitchi, shown above in January flower and below in August foliage



Charcoal in the potting mixture is quite essential as an absorbent medium and tends to reduce acid conditions in the soil as well as to permit free air circulation about the roots.

There is great danger of having the pot too large for the plant—too much potting material becomes overwatered and sour—but it is best not to disturb the roots. With species having a root stock or rhizome, if the growing tip be about an inch from the edge of the pot, the size will be about right. The end with the ba bulbs may be placed in direct conta with the edge of the pot.

Opinions differ regarding the amount drainage necessary in orchid pots. T majority of growers, however, use co siderable crock and broken pieces of cha coal, filling about one fourth the pot wi it and on top of this, a little of the s mixture is spread. The plant is then he in position so that the rhizome, or base the pseudobulb, will be about even wi the top of the receptacle. The root syste is spread as much as possible and t potting compost worked about the roo until the plant is held firmly in the rece tacle. A potting stick is used to work t material about the roots, and the co post should be worked firmly toward t center of the pot, care being taken not break the roots and also to have the roo stock always on top or very near t top of the compost. No Orchid will ma a satisfactory growth if potted loosely the compost.

SPECIES BEST SUITED FOR GEN ERAL CULTURE BY AN AMATEU

If I had even a little greenhouse spa available I would grow a few Orchids. would begin with a few Calanthes, selec ing first Calanthe veitchi, for I have four that with the conditions in an ordina greenhouse this is one of the easiest. T flowers last for a long time and, like Glad olus, the lower flowers of the spike op first to be followed gradually by oth flowers to the tip of the long spike.

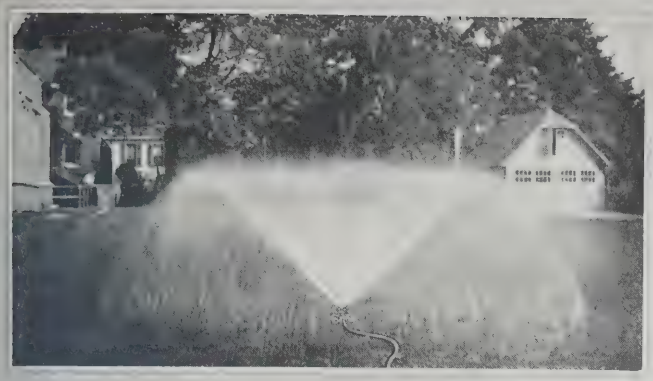
I would certainly grow Coelogy cristata. This adapts itself to quite vari temperature conditions and, if grown ne the glass and not frequently repotted, w respond with an abundance of flowers January.

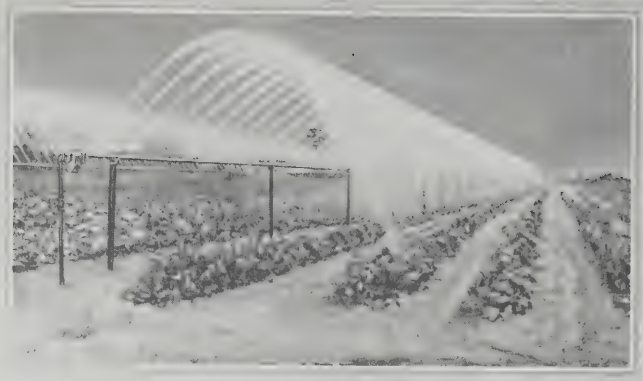
Cattleyas are the genera most genera recognized as Orchids. Many peo know no others when the word is m tioned. Cattleyas are among the larg flowering types and their unusual fo and rich coloring appeal strongly to flower lovers.

It is not advisable at first for an ar teur to attempt to grow a large num of species. The type Cattleya labiata a good one for the beginner. The plants grown easily and have a freedom of blo that makes their culture satisfacto Flowers generally appear in October November. Other good species are C leya percevaliana flowering in Decem trianae in January and February; sch deriana in March and April, and mos in April and May.

Laelias are similar to Cattleyas in t general habits of growth and cultural requirements. Laelia anceps and its w varieties are among the easiest of cult

Some of the (continued on page 2)



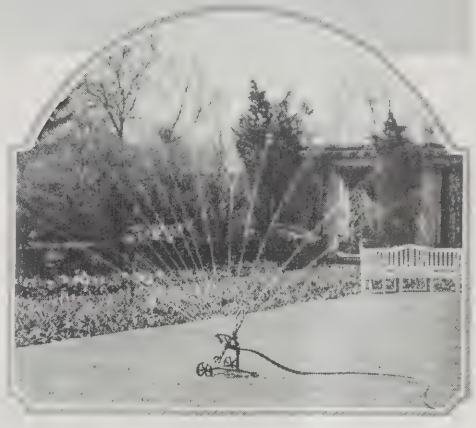


The ball bearing automatic rotary lawn sprinkler shown (above left) has eight nozzles, set at proper angles for even distribution and gives an even copious watering over a wide circle. (Campbell Irrigation Co.)

Here we have the popular Waterfan on a gigantic scale (above right). The motor on this L. P. Model Irrigator is sufficiently powerful to oscillate pipes 50 to 250 feet long. (Campbell Irrigation Co.)

This rotary Rain Drop Sprinkler is of greatest adjustability. It can be made to miss or hit just where, when and how you want it which is a convenience in confined or sharply bound areas. (Alsteel Manufacturing Co.)

Why Water, How and When



One of the really great improvements in irrigation apparatus is this Rainbow Sprinkler which, under 30 to 40 pounds pressure will evenly water an area size 50 x 60 feet. (White Showers)

WATER is the agent that makes the food in the soil available for the nts. That is the fundamental reason y, during prolonged drought, plants come semi-dormant. If that happens the season when the plants should ive and store reserve energy to survive winter, drought works great injury. e foliage may drop, depriving the plant its breathing apparatus and entire rking machinery. When that happens annuals they quickly die. Perennials come dormant and, not having reserve ength, usually are winter-killed. ody shrubs and trees generally not show the effects of proged drought until the follow- summer. All this by way of nting out the sheer necessity ikeeping the plants going dur- their growing season even if ificial watering (irrigation) has oe pressed into service.

As with every other gardening eavor there is a right way and rong way to water the garden. not water too frequently. Do water during the middle of the and don't apply the water in a erse direct stream. Watering garden with a solid stream rn the hose is fundamentally ng anyway. Every nozzle een fine sprays) discharges relatively too much water in too short a time for the physical comfort of the plant. Putting cold water on thriving plants during the summer months, especially during July and August, may be likened to taking a bath in ice-water while perspiring.

The 'Belfont' has a swivel device throwing a circular spray, which is mounted over a bowl into which some water falls making an attractive bird bath; coated with Udylite, a bright non-rusting material. (The Deming Company)

Too frequent watering is apt to soak and sour heavy soils. It also creates a tendency in most plants to send the feeding roots toward the surface instead of downward. Such plants will suffer twice as hard when watering ceases. Watering during the middle of the day, especially while the sun shines, defeats much of its own purpose. The sun will absorb the surface moisture quickly. Quickly drying soil cracks badly, dries out deeply and the plants may be worse off than before.

The ideal method of watering is to attach some efficient distributor to the end of the hose. As the water descends, it is tempered by the warm air and coming down upon a given spot in small, even minute particles, it gives the soil a chance to absorb the water gradually. The ideal time to irrigate is after sunset. And it is better to give the garden a thorough soaking once a week than a superficial sprinkling every other day.

The Multiple Lawn Sprinkler does the job up proud! Three separate sprays are attachable to one length of hose. (Roberts Brass Mfg. Co.)

Your House and Its Grounds

Building the garden—the last of a very practical series on the development of dwelling and setting as a harmonious unit

L. W. BRIGGS, Landscape Architect and J. F. YEWELL, Architect

IF THE same care and consideration that are usually given to the building of the house and garage were also given to the development of the grounds about them we would see far more beautiful country and suburban places. The landscape work is most unfortunately often regarded as a very secondary matter, in spite of the fact that we move from town chiefly for the enjoyment of the out-of-doors.

This part of the building program should be thought about at the time the financing of the home is considered and provision made for it then. As the construction of the house progresses, care must be taken lest the many extras, which seem inevitably to appear, devour the owner's last dollars. Often we hear this exclamation, 'Our house has cost us so much more than we ever expected!' As the poor but proud home builder views his new mansion arising from desert of débris and excavated material he realizes perhaps for the first time that there is more to be done. If he has not been wise enough to set aside a definite sum for beautifying the grounds, and defended it against the inroads of the ambitious architect or crafty contractor then he is faced with another problem.

In the case of the very small plot some very definite layout should be kept in mind and the place of any size or pretense should certainly be developed from plans and specifications. All the advantages of drawings and specifications which recommend them for house construction apply to garden work. Without an intelligent guide much money can be wasted especially in the use of plants which are not suitable for the situation and soil, or are artistically undesirable. The free plans offered by nurseries are, of course, mainly vehicles for disposing of whatever they have in stock. They are usually worth about what they cost. Next to having the services of a reliable landscape architect the best advice may be obtained from books or magazine articles written by authorities on the various aspects of the subject.

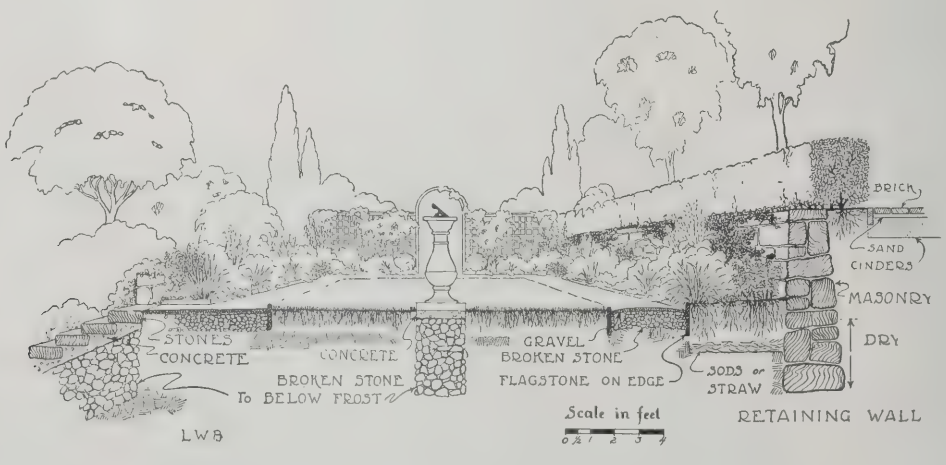
STAKING OUT THE GARDEN PLAN

Assuming that a definite arrangement has been decided upon, the first step is to outline it on the ground. Heavy stakes about two feet long should be driven in to determine the principal lines of the walks, steps, hedges, pool, and other main features. The best method generally is to fix the center line of the garden first and take measurements from it on either side. This insures symmetry if done with a moderate amount of care. Light stakes of a similar length are good for locating trees, planting areas and individual shrubs or vines. Write on each stake just what it marks. When grades are indicated by stakes, the amount of cut below or fi above the existing level at that spot i noted on each.

THE BEGINNING OF THE CON STRUCTION WORK

After thus marking out the design yo are ready to have the construction wor start. The first operation is usually grad ing. In localities where top soil is scarc —and that is the condition in mos suburbs—be sure that it is conserved Where the ground is to be cut away, o where it will be filled over four or fiv inches, the existing top soil, if good should be removed and piled where i will be safe and also convenient for us later.

One of the chief objects of grading i to secure good drainage, a most importan point. Where it is very wet the conditio must be corrected, no matter how goo or deep the top soil may be. Remembe that if the excess water cannot be r moved, only the plants which natural grow in low spots can be used with an success. Standing water rots the root sours the soil and makes it cold, especial in the spring. It also keeps out the a necessary to the root system and oft causes heaving of the ground in winte This undesirable condition of the land not always apparent on the surface, e cept perhaps in the spring for a short tim



What lies beneath the surface is after all the measure of success in garden-making to which too little attention is paid—people play with the surface and are surprised when inadequate results are attained. These typical sections (above and opposite) show details of underground construction for different parts of the garden. Preparation of soil in flower borders shows bottom material of sods, etc., with fertilized topsoil ready for reception of plants

st any suspicious spot by digging a hole ır feet in depth, and if you find over a ɔt of water there during most of the mmer it is not a good place for the erage plant.

The ground should be sloped to prevent ter from standing around a structure, it frequently causes serious damage the foundations. Lawns should always ve some pitch; never less than six inches a hundred feet. Otherwise water will lect and cause soft spots. When water nnot be led to points where it can be nveniently disposed of, dry wells must built to receive it. If the ground is t for long intervals in spite of proper ading then under-drainage must be ef-ted. Use porous or vitrified tile laid a grade of not less than six inches in e hundred feet. The joints should be en and the upper half protected with a all piece of tar paper, mortar or bur-. Care should be taken to have the es straight and the grade even. Junc-ns should be acute angles rather than ht angles. The amount and size of tile quired of course depend upon the quan-y of water to be removed. Where the uation is not serious a four-inch tile l be large enough.

TTING THE SOIL IN CONDI-TION

Following or coincident with grading he preparation of the ground for plant-. Gardens, like houses, should have od foundations. Without well prepared l to support them, the shade giving es, the borders of flowering shrubs, the g hedges soon become weak, and the ole leafy structure will appear straggly l thin. There is a great tendency to nt results both quickly and without ch effort, despite the fact that, in general, they prove in proportion to the attention given. This work may seem like sinking money into the ground, out of sight, but it soon reappears, usually the first year, in the rapid development and healthy appearance of the plants. And each succeeding year dividends in growth continue to be realized. A dollar tree in poor soil may look like a thirty cent tree in a few years, while a thirty cent tree in good soil will after a short time look like a dollar's worth.

Plants require nourishment and also an intelligent diet. Two extremes of treatment are common, the plants are either starved or killed with kindness. Roses must have plenty of manure but Bayberry, which grows naturally on gravel banks, does not want a rich soil. Also what is one plant's food may be another's poison.

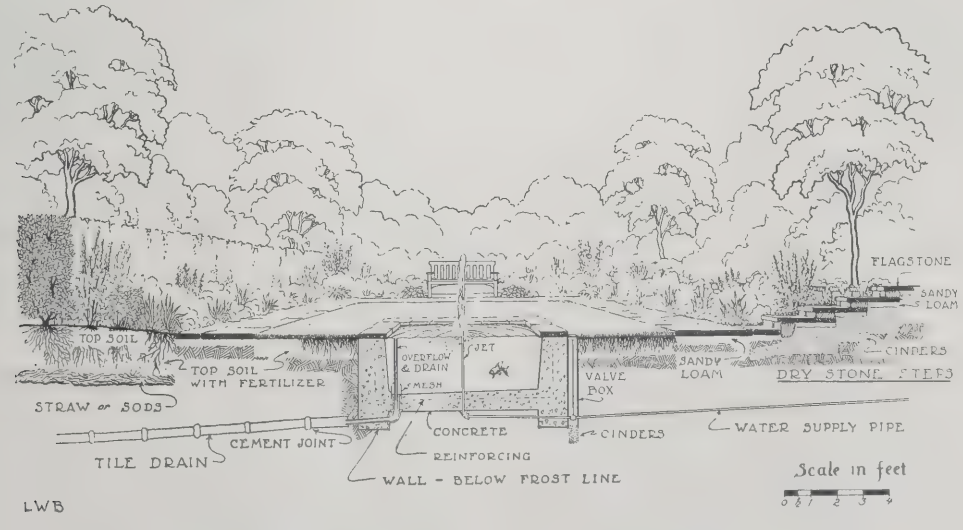
For example, lime, so beneficial to Arabis and the Aubretias, will kill Rhododendrons or Laurel. Evergreens do not care for much manure, and when any is used precautions must be taken to be sure it is well rotted. Humus is better. Native wild plants are not accustomed to garden fertilizer and therefore do better without it. Most shade and all fruit trees, also cultivated shrubs or vines show in most cases splendid growth under heavy fertilization.

When you are not sure of the special requirements here is the safest course—if the soil is poor and you cannot replace it with better, incorporate a liberal quantity of barnyard manure containing a large amount of straw. Good soil should be enriched with a little manure or other general fertilizer. A large area of moderately rich soil is far better than a heavy dose of a rich mixture in a small space. The roots of plants are constantly moving outward and to put all the food in a limited area retards this normal and desirable growth.

Remember that a tree or shrub which has just been transplanted is recovering from a rather serious operation and is hardly prepared for a big meal. Loosen up the soil. Spare the spade and spoil the plant. The farmer plows the ground for a crop such as corn, which is there only one year, yet many people think it is sufficient to dig a stingy little hole in the hard earth just large enough to squeeze in the roots of some tree or shrub that is supposed to remain and flourish for many years.

PREPARATION OF PLANTING AREAS

The preparation of the planting areas and individual holes should be done when the ground is in good condition for working, not when it is so wet as to be sticky, and should be completed before the plants arrive. If the shrubs are to be the average three to five foot sizes, dig out the holes for them at least two feet deep and two feet in diameter, and tree holes two and one half feet deep, with a diameter sufficient to permit spreading out the roots when planting. Pile separately any sod, the good soil, and the poor soil with any stones or rubbish. On the bottom of the hole place sod, roots up, or straw. Next a mixture of good soil and well-rotted manure or other suitable fertilizer to within nine inches of the top. Stamp this down firmly as it is put in. The remaining space to be filled with good soil only. Now as the plants come they can be handled rapidly and easily at a season when weather and garden labor are both very uncertain. Quick action is most important in planting and so everything should be done to facilitate this operation.



In studying these details of good garden building it will be seen for instance, that gravel walks are underdrained with broken stones and the edges are marked by flagstone on edge to maintain the clear-cut line essential in a neatly kept, trim garden

In this sunroom above one of the fold-up dining tables is seen both closed and out of the way against the wall and also opened, ready for luncheon for four. Here the utmost simplicity of construction and operation is combined with convenience and utility. The picture at right shows clearly the strength and rigidity of this table that is such an achievement in making housework easier. (Nichols & Cox Lumber Co.)

A wonderful combination is this nook that buttons itself away behind narrow doors and underneath the window. Taking up a very small space when extended it occupies none at all when closed. (Wasmuth-Endicott Co.)

Where one has space for a permanent built-in dining alcove is one of the greatest conveniences. Both table and seats are so well designed that these nooks make a decorative addition to any room. (Curtis Co.)

Rooms that hide in the wall might be the name given to these tables and seats that fold up and slip out of sight. The benches and supports fold up against the doors, an automatic operating arm making a perfect adjustment. (Fain Mfg. Co. Inc.)

At left, the fold-away dining nook is shown as it is being brought out for use. The construction prevents any accidental closing of the table which has a porcelain top that makes it useful as a kitchen table if desired. (Fain Mfg. Co. Inc.)

ily painted tables nd chairs make of is kitchen corner cheerful dining lace where break- st can be served ith dispatch and here the children n have their lunch. Armstrong Cork Co.)

Two Rooms in the Space of One

Breakfast alcoves that fold against the wall or fit in odd corners and add another room

ELLEN D. WANGNER

HE zero hour in the average home is breakfast time. Whether the day is be cloudy or fair is often determined the breakfast table when perhaps there y be a chance for only a hurried cup coffee, with the eye on the clock and the d on train schedules. To many a ne-maker it does not seem possible t her dining room that had been so ery and friendly for the previous ht's dinner *could* be this cold unfriendly ce at morning—nor that any meal ld be so hard to prepare as breakfast n one is late or hurried. This happens often with the best of us that the mat- of a breakfast nook—that cheery panionable easy-to-use corner—is of portance to every home-maker.

Whether such a nook be an actual ner with built-in seats and table or ther it be a room that shuts up and es away in the wall does not matter. h make for a gay cozy atmosphere t affects every member of the family. re is something suggestive of picnick- when one sits at such a table: there uch fun in having electric percolator, ter and grill within easy reaching dis- e that breakfast cannot fail to be a happy time for even the grouchiest man. Where there is an actual dining alcove it is, of course, the simplest matter to arrange the table at night, ready for possible late rising of either mistress or maid. Tables and seats charming in design built to render real service for these alcoves can be purchased ready to install, and many a pantry has found itself robbed of its shelves and blossoming out into this additional dining-place for the family.

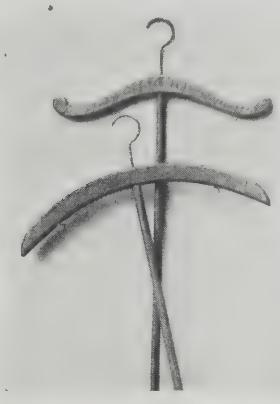
In the average home of to-day, however, space is at a premium and every inch of the home floors must render full service. In the small homes and apartments there is even greater need than in the larger home for a breakfast or luncheon table where these meals may be easily prepared and served. To meet this need are the marvelous fold-away-in-the-wall tables and benches that can solve so many housekeeping problems. One of these is literally a 'dining room on a door' for this fixture (really three pieces of furniture in one) hides not behind the door but *is* the door itself. What looks like an ordinary door in a room will at one touch of the hand slowly let itself down into the room, the door becoming the table, and two well-constructed panels unfolding like a beetle's wings to make the seats. Folded against the wall it projects from the wall a mere four inches, and open ready for use its table top projects from the wall forty-five inches.

These sturdy seats and table are held firmly together with heavy, nickel-plated continuous hinges. These rooms may be had in different colors or unfinished if desired, and moreover come in three different models: one attachable to a flat wall surface; another to a door; and the third can be recessed in a four inch stud wall. Firm, compact, durable, these fold-up tables whether used as dining table, in the kitchen as a work table, in the sewing room as a sewing table, in the nursery as a play table (or for children's luncheons) solve the problem of extra space and greater ease in home-making. So successfully have such tables solved these problems that most manufacturers will submit floor plans of typical rooms where they can be introduced and the decorative departments of these far-seeing artisans will, on application, design plans to meet individual requirements.

This is a service (*continued on page 326*)

UP-TO-DATE DEVICES

Long Handled Hangers

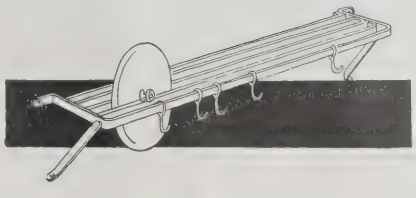


In this day and age, when (as has been so often mentioned before!) closet space is at such a premium, it has always seemed a shame to have several perfectly good square feet of space in the top of a very high closet go to waste. These hangers shown at the left are made for just such closets. The long handles enable you to hook the hanger over a bar at the very tip top of the closet without any effort whatever. (Skirt hangers, 36 in. $1.50; 42 in. $1.63; 48 in. $1.75. Coat hangers, $1.25; $1.38, and $1.50.)

New Table Connector

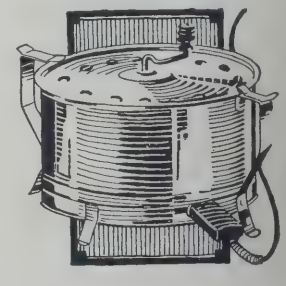
This is the age of electricity (see also Mrs. Fales's article on page 270 of this issue), and every home owner is glad to know about all sorts of new appliances for convenience and pleasure. This electrical device shown at the right is a new table connector, done in French gray silver, which sits on the dining room table or tea table. This connector in the picture accommodates only two appliances, but there is another made that will accommodate four. ($3)

Pan and Lid Rack



Cooks agree that one of the most aggravating things in the kitchen is trying to fit a lid to a saucepan and finding it too large or too small. It means, as a usual thing, pulling out all the lids and going through them one by one, and in the process most of them crash to the floor! This rack allows a peg for the saucepan and space directly above it for the lid that fits. Thus order in the kitchen is preserved, and the frazzled nerves of the over-warm cook are protected. ($1.50)

Electric Corn Popper



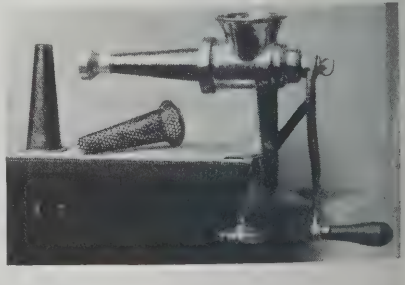
Still another new electrical appliance is this corn popper. Gone are the days when popcorn and Christmas and an open fire must be associated; nowadays we may enjoy the hot delicious dish with almost no effort at all. Just put the corn in the container, attach the popper to an electric outlet, and there you have the finished corn, done to a turn. In the perforated lid is a turner to prevent the corn from sticking, and the popping process is very simple: just turn the handle. (Nickel plated, $3)

Tape Measure and Skirt Hanger

Many a woman sews beautifully and uses a pattern skillfully, but the rub comes when the skirt has to be hung. That is a job which standing before the glass cannot accomplish. And once upon a time she would have to call in help before the job could be done. Now, however, she can have this little device, and hang her dresses herself. By the addition of a cleverly shaped piece of metal attached to the end of a tape measure and placed under the foot an ingenious method of skirt hanging has come into being! (45 cents)

Sieve and Separator

A regular kitchen race horse is this new utensil which has but recently come on the market. It does to vegetables and fruits what the meat chopper does to hash. The vegetables are put in and ground up, and furthermore the puree is separated from the remaining pulp, skins, and seeds, and goes off in a bowl provided for the purpose. There are several sizes of sieve, so that the puree may be as thick or as thin as desired. ($5.50)



We are very glad to offer a shopping service to the readers of GARDEN & HOME BUILDER. Send your check for the article you wish to Shirley Paine (payable to her), care Doubleday,

FOR THE HOMEOWNER

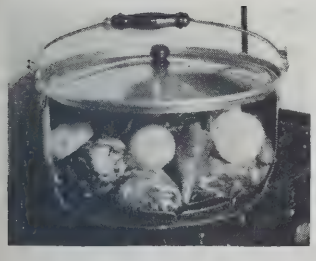
China Razor Cabinet

The safe disposal of old safety razor blades is often a problem. Too dull for shaving, they are nevertheless too sharp to leave unguarded, for an ugly gash may result from a razor edge. This china cabinet holds them where they can do no harm to the members of the family. The cabinet provides as well a place for the safety razor and a pocket for new blades. (Jade green or black $2, orchid, light blue, peach and yellow, $2.85; white, $1.35; coin gold $5.75)

Maid's Pail

After all the cleaning woman has a hard enough job—scrubbing and scouring day in and day out. So why not try to make life a lot easier for her? Illustrated at the right is one of the things which may be found in the stores to-day to lighten housekeeping burdens. It is a combination pail and deep tray which accommodates scrubbing brush, cloth, soap, etc., and keeps them all together, and easy to find. Moreover, the chances for slopping water and spilling soap are much less. (In red and blue, yellow, white and green $5.50)

Aluminum Steaming Grid



The French above all others, understand how to cook vegetables so that none of the delicious health giving juices are lost. This grid, however, is a new culinary appliance, designed to do just this trick. It makes every pot a steamer and saves the important calcium, mineral salts and vitamines. It is placed in the bottom of any pot of whatever material now in your kitchen, is adjustable, and made in three sizes, some one of which will fit any pot. (Small size 30 cents; medium 40 cents; large 50 cents; or set of three $1)

Novelty Nut Cracker

A new nut cracker that is said to crack the toughest nut! Pressure on the tail of the squirrel closes the jaw and cracks the nut, and raising the tail opens the jaws and discloses your nut, nicely cracked, and ready to pick out and eat. The little figure is full of life and the grace of the furry little creatures of the trees, and is a decided addition to any nut bowl. It comes in two finishes, nickel at $3.25; and bronze at $2.50, and will harmonize with any kind of table furnishings.

Vanity Rubbers

Imagine rubbers small enough to fit into your vanity case! Also imagine how convenient it is to always have a pair of rubbers with you, ready for the spring shower, without having to bother with a bulky package. These rubbers roll up and fit into the small rubber pocket shown at the left of the picture. The rubber is as thin as kid, yet quite strong enough to withstand considerable wear and tear. (85 cents)

Something New in Flower Pots

This new seedling pot is made only of soil forming material, and it is impossible for plants to become pot bound as the porous walls permit the roots to penetrate and grow through them. There is no danger of overwatering, as it maintains the correct moisture content by capillary attraction. It is adaptable to the needs of the florist, truck gardener, and amateur gardener, for keeping the young plants growing on. (In various sizes, from $2\frac{3}{4}$ in. to $6\frac{3}{8}$ in. priced from 50c. to $1.25 a dozen.)

Doran & Company, Inc., 244 Madison Ave., New York, and she will do the rest. If you order more than one article at a time, please send separate checks. This service is entirely without charge.

Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

Taking a Chance with Gladiolus Seedlings

AS A Gladiolus fan I derive a great deal of pleasure from collecting different types and varieties. Also the thrill that comes from acquiring unknown seedlings and growing them on to see whether there is a prize variety hidden among them. It was from a lot of some two hundred odd mixed seedlings that I got from Diener that there developed the splendid spike which I exhibited at the Dahlia Show of San Francisco last September, and which won for me the prize as the best individual seedling Gladiolus on that occasion. It is a white, and I think a very fine one. Fancy twelve blooms open, and such large ones! The spike shown was grown in the open border without any special attention, and has been given the name of Matilda Ann.—Sam C. Fletcher, *San Francisco, Cal.*

Attention, Christmas-rose Lovers!

MY letter in the February number of Garden & Home Builder about my Christmas-roses brought me so many letters of inquiry as to where they can be procured, and requests for roots or exchanges from all over the country, from midwest to the south, that I have found it quite impossible to answer them personally much as I would like too. The first dozen I answered, but when they reached over a score and were still coming I found it quite beyond me to write each inquirer; so will you kindly give me space to say to all those I have not been able to write to personally that I do not know where any roots can be bought?

As one of my correspondents wrote me she had looked over a hundred catalogs and failed to find them listed, I am afraid no florists carry them. If I tried to send them roots from my garden, I wouldn't have enough to go around. But I do wish I had enough blooms to share with all of them for I have been picking them from the garden all winter and have a bouquet of them in the house now (early March) that I picked during a thaw over a week ago—May Burrows Miller, *Oswego, N. Y.*

Varicolored Mertensias

I WAS greatly interested in the description of Mertensia virginica in Mr. Sherman Duffy's article in the August Garden & Home Builder. This lovely native plan is very little known. Many persons familiar with Bloodroots, Trilliums, Hepaticas and other wild flowers have never seen the Virginia Cowslip or Bluebell.

Until two years ago, I was one of these unfortunates, but for two springs this beauty has bloomed in my garden, and I have learned a most interesting fact which is not stated in any printed description I have read. This is in regard to color range.

Prize winning Gladiolus Matilda Ann grown from seed, and described at left

All the catalogs I have which list the plant say the flower is blue. Violet or purplish-blue would be more accurate, no doubt. And Mr. F. Schuyler Matthews, being artist as well as author, in his *Field Book of American Wild Flowers*, which is, I believe, as able and scientific a treatise on our native plants as any we have, describes the bloom as violet, adding 'rarely they are white.'

Roots were sent to me over two years ago from a friend in Ohio, and this spring there bloomed in my garden the typical violet, a very pale lavender, and a bright clear pink, verging on rose color.

The same friend has sent me a root of a dark lavender, which I hope will bloom next spring. She writes in recent letters:

'I have a small clump of the white and when it multiplies I will give you some. Also the dark lavender is very pretty, I think. I had a Bluebell with a very bright pink bud which turned deep blue; again I had one which was a sort of opalescent light blue overlaid with pink. Still another is pink and light blue. Others have blue buds and blue bells. My sister had a double one this year, ten petals instead of five. If you do not cut away the flower stems but let the seed mature and scatte it will self-sow and you will soon hav masses.'

By mere selection, without resorting t hybridizing, I think much could be don with this flower.—Amelia H. Botsfor *Edge Moor, Del.*

Easter Lilies in October

I HAD always understood that Easte Lily bulbs produced blooms but onc and that after their spring blooming migh be thrown away. A friend from Cape Co however, told me that she had let the dry out in the pots, then put them into th ground after warm weather came, an had them bloom in the fall.

I had two beautiful Easter Lilies i April in separate pots. After they ha bloomed I let the bulbs dry in the pot took them from the earth in May, an carried them home with me, and in Jun I put them in the ground. It was a la spring and the bulbs were a good whi throwing up shoots, but grew quite rapi ly, with ordinarily tall stalks, one havi two buds and the other three. But, as th days shortened the buds did not grow fast as they might, it being an abnormal cool summer, and I feared frost wou come before they opened.

After protecting them nights until mi September I gave them another chan and, without disturbing the roots at a transplanted them into large separa pots, took them into the house, and ga them a warm sunny window, also plen of water.

Those buds swelled at once, and early October they all opened, one af another, as snowy white, fragrant bloo as you ever saw, and as large. Everyo exclaimed over them, at that time of ye and when I took them to church th vastly lightened the autumn gloom.

I shall never again throw away Eas Lily bulbs, without giving them a secc chance. It might not always work, bu costs nothing to try.—Mrs. M. Baker, *Everett, Mass.*

A Page from Gladiolus History

WHEN I open the Garden & Ho Builder I usually look first at Leonard Barron's page; and because th is always so much enlightenment ther have wondered about a remark in re February number, which occurs in re third paragraph.

It seems to me that varieties, not spec

n Seventeenth Century Eng-nd, fair ladies vied with each her in crewel work embroi-dery in bright twisted wools

his striking Schumacher repro-ction of a Seventeenth Century broidery flashes the brilliance of amatic design and color against a background of buff twill

Crewel Work of rare loveliness with the fantastic motifs of Jacobean days

Seventeenth Century Eng-nd, when embroidery was dvith the fine Arts, ladies of neage and accomplishment gtly plied their needles.

hy worked in crewels—bright td wools, on bold neutral as, heavy twilled linens or o; mixed with flax.

cumacher has reproduced y of these rare embroideries. To draperies, curtains, upho.stery they lend the inimitable quality of handcraft. They are in accord with dark, carved furniture of Renaissance inspiration—with early American decoration—or with Spanish decoration and the sophisticated French *art moderne.*

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A new booklet, "Fabrics the Key to Successful Decoration," discusses the history of fabrics and their importance in decoration. It will be sent to you without charge. F. Schumacher & Co., Dept. D-5, 60 West 40th Street, New York. Importers, Manufacturers and Distributors to the trade only of Decorative Drapery and Upholstery Fabrics. Also Boston, Chicago, Philadelphia, Los Angeles, San Francisco, Grand Rapids, Detroit.

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or families were meant, for we can look back for more than a hundred years to all of them, and it looks to me as if a connecting paragraph had been omitted.

For instance Gladiolus: Mrs. Loudon's book on *Bulbs*, published in 1841, London, contains seventeen beautiful colored illustrations of Gladiolus, and lists thirty-nine named species, twelve other not well known species, and eleven named hybrids, two of them having been illustrated in *Smith's Floral Magazine* (as stated in Loudon, date not given). Then, to step into the 18th century, on Oct. 20, 1741, Peter Collinson sent John Bartram 'a box of bulbs,' among them Gladiolus.

I do not have a first edition of Miller's *Gardener's Dictionary*, but in the second volume of the second edition Miller names five species of Gladiolus and refers readers to 'the former volume' for directions on propagation.

In the 17th century Parkinson in his *Paradisus* (Methuen reprint, 1904) of 1629 gives seven species illustrated under the heading 'Gladiolus, Corn Flagge.'

In Parkinson's Herball of 1641 (*Theatrum Botanicum*), pages 1250 and 1251, he lists a plant as 'Gladiolus lacustris, Water Gladioli,' not because he actually thinks it a Gladiolus but that 'the flowers doe more answer to the forms of the flower of gladiolus and therefore I so entitle it.'—Mira L. Dock, *Fayetteville, Pa.*

—Of course, you are quite right in your inference. It might have been explained more definitely perhaps that the parents of the plants on the table were in some cases known but not the current forms of those plants. I would not even use the word variety because as a matter of fact the results of modern breeding and intensive hybridization and selection have been the creation of plants that are sufficiently distinct in themselves to have all the individual qualities of the old original species themselves. These cultural groups have been called cultigens. The Florist's Chrysanthemum or the Florist's Carnation are examples.—L. B.

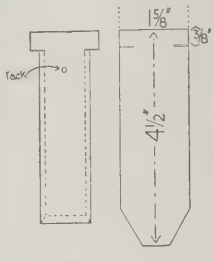
Another Practical Label

PERHAPS all you Glad fans and flower lovers don't keep a goat to eat up your tin cans. Nor do I. So to use them up and at the same time turn them into something useful I hit upon a plan some years ago, and will pass it on to you.

Take your old tin cans and cut them up in pieces $1\frac{5}{8}'' \times 4\frac{1}{2}''$, then cut as shown in sketch. Also get a piece of strap iron $\frac{1}{8}''$ (or less) x 1" x 6". Now form your tins over this (a small vise is handy in holding tin and iron) and when done you have a label holder that can't be beaten, for you can tack it to any kind of a stake using one common tack, and at harvest time all you have to do is pull it off and put it with the bulbs or seeds, as the case may be. It will last for years if dipped in white paint.

For labels I use heavy cardboard or paper, printing the names of varieties on this label with waterproof India ink. I have some in use made three years ago and they are still good, as the top of tin bent down after label is slipped in acts as a protector and watershed.

This makes a neat job and inexpensive. As for stakes you can use mill edgings or boxes split up.—C. H. Hudson, *Ashtabula, Ohio.*



Practical garden label, made from an old tin can (see text at right)

Apple Trees for Hedges

IN THE apple tree hedge shown below there are thirteen Apple trees, on six foot centers. The whole hedge is about 90 feet long. There are four varieties: Astrachan, Spitzbergen, Winter Russet and another unrecognized.

The trees are eight years old and began to bear at six years for the first time. This past year there was a very heavy crop. The apples are all extraordinarily large, due probably to the constant pruning of the trees. They have not been fertilized at all. They have been peculiarly free from disease of any kind due possibly to the fact that they have been given a dormant spray of lime-sulphur before the leaves appear, and two treatments of bordo-lead during the leafing season.

When first started, the trees were trained on wires drawn through rigid pos at each end of the line. As they gre additional wires were strung. Later, the wires were replaced by bamboo uprigh and laterals. The trees are now so stur that they need no supports whatev The branches are intertwined so that th make a tough and self-supporting who The trunks at the base are now abo three inches in diameter.—Clayton Old, *Montclair, N. J.*

Apple tree hedge, 90 feet long, including four varieties: Astrachan, Spitzbergen, Winter Russet and another unrecognized

The Guilty Purple Barberry

IN THE summer of 1917 a young m armed with a note book came into Indiana garden to say 'I thought I saw purple Barberry bush.' Undoubtedly did, for after several attempts to establ them one had decided to grow. He ask if we did not know the evil reputation the Barberry. We did, but had thoug that the purple Barberry was safe. explained that it was as guilty of harb ing the wheat-rust as the common gre type, gently suggested that it be remov and vanished. So did the Barberry, t same day. In the summer of 1924 anot Barberry hunter appeared from the periment station, checking the lists previous years, to ask if that Barbe still existed.

So after all this we were much in ested when we found that even be phytopathology had proved its guilt Barberry had been suspected. In *St Coach and Tavern Days*, published in 1 on page 341, Alice Morse Earle 'There seems to have been, in many pla a suspicion of uncanny reputation nected with the Barberry bushes. The Barberry was not a native of Ame it is an immigrant, and has further ill name of blasting wheat near which it is planted.'

Canon Ellacombe, in *A Glo tershire Garden* (1895) page says of the Barberry: 'It once an evil reputation as produ rust in wheat, but that ide now exploded and it may be g without fear anywhere.' Evid then old observers had rightly nected cause and effect, but a sk cal later generation had set the aside as mere superstition unti laboratory workers could pro right.—Mary Johnston, *Jac ville, Ill.*

—It should be understood the condemnation applies on the Common or European specie vulgaris. The Japanese species, B. bergi, is immune and, by the the purple leaved variety of that is as good a grower as the green and may be planked in safety.—E

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You do not need to buy a new roof or make extensive repairs every few years. Cheap roofs are a false economy. Johns-Manville Asbestos Shingles cost a few dollars more than paper and asphalt roofs, or other temporary materials, but their first cost is their last. No roof of these shingles has ever worn out. *And you cannot buy a better looking roof at any price.*

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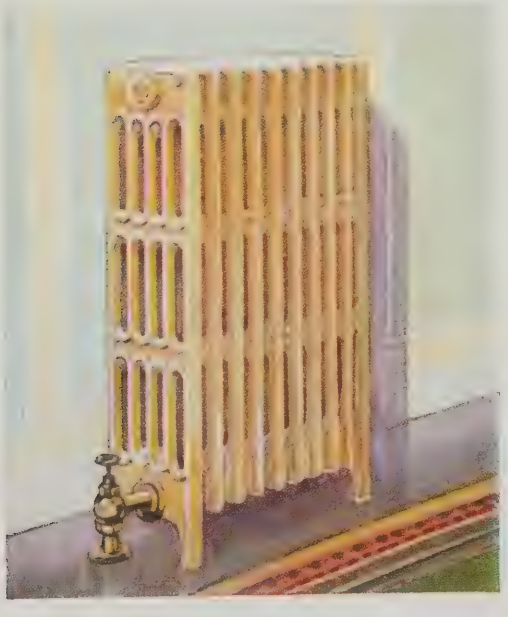
R-15

And now the *cellar* becomes another *room*

There's a game of billiards in full swing—dad and the boys are having the time of their lives. The cellar has become a "den"—and exclusive territory for the men of the family.

How much the new "Thatcher" Elite Boiler has contributed to this transformation you can readily see for yourself. And the house—the great big house above—from mother's sewing room to the children's nursery—is snug and warm like a woolly blanket, no matter how much the chill winds blow outside.



And throughout the house you will find the new Thatcher "Gothic" Radiators—gracefully proportioned, decorative, and most efficient in heat delivery. The house that "Thatcher" heats is always warm—never cold, for the powerful Thatcher boiler with its famous "staggered fire travel" dr the heat upward with unfai persistency.

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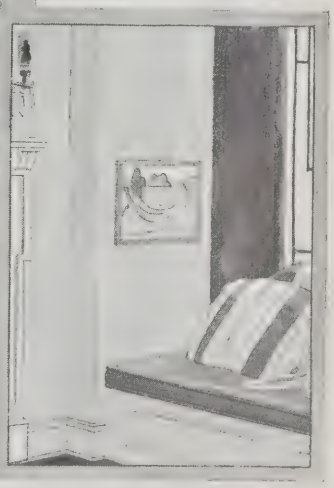

Let's begin with the front door!

THAT'S surely a pleasant place from which to consider a house. Most people get their first impressions from the doorway. Much of the sentiment is gathered about it. So let's start at the front door.

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Now let's go inside. What wood shall we use for the stairway? For the fireplace, paneling, balusters, kitchen cupboards and interior trim? Wherever a light, easily worked, soft wood is needed, use Pondosa. Pondosa finishes beautifully. The way it takes paint and light enamels will delight you.

Even though you don't actually purchase the lumber for your home, make sure that Pondosa Pine is freely used. Your personal interest will pay big dividends. Talk it over with your builder and architect. For further information, address Department 20, Western Pine Manufacturers Association, Portland, Oregon.

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THE NATIONAL GARDEN ASSOCIATION

To Promote the Annual Observance of National Garden Week

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SOCIETY OF LITTLE GARDENS
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NATIONAL PLANT, FLOWER AND FRUIT GUILD
WOMEN'S NATIONAL FARM AND GARDEN ASSOCIATION
THE AGASSIZ ASSOCIATION
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Mrs. John D. Sherman

TO VISIT the lovely gardens of England is the dream of almost every American traveler. Many of these gardens are open to the public at slight cost and the National Garden Association has secured a list of these for the benefit of its traveling garden-minded readers, this list coming to us through the courtesy of the London branch of the English Speaking Union.

The hours when these gardens are open are given and the admission.

HOUSES AND ESTATES IN ENGLAND

Name of Garden	*Days Open*	*Time*	*Admission*
BUCKINGHAMSHIRE			
Dropmore, Burnham.	Mondays & Saturdays.	11–5	
CORNWALL			
Carclew, Perranwell, Near Falmouth.	Sunday afternoons		
Penjerrick, Penryn, Falmouth.	Wednesday afternoons	2–6	Leave card in basket outside door.
St. Michael's Mount, Marazion.	Mondays, Wednesdays & Fridays	11, 12 2, & 3.	
DERBYSHIRE			
Chatsworth House, Nr. Rowsley.	Tuesdays, Weds. Thurs. from mid-June to mid-August	11–3:30	1 shilling
KENT			
Chevening Hall, Nr. Chislehurst.	Wednesdays in August and September	2–6	
LANCASHIRE			
Calderstones Park, Liverpool.	Weekdays.	10 to dusk	
LINCOLNSHIRE.			
Belvoir Castle, Grantham.	Mondays, Thurs. and Saturdays after July 1st.		
LONDON			
Hampton Court, Richmond.	Dawn to dusk.		
Kensington Palace, Kensington.	Dawn to dusk.		
Rookery Gardens Streatham, S. W.	Dawn to dusk.		
NORFOLK			
Blickling Hall, Aylsham	Thursdays,	2–6	1 shilling
NOTTINGHAMSHIRE			
Newstead Abbey, Linby.	Weds. Thurs. Sats. Tickets from Estate Office, Tower Entrance.	2–6	1 shilling
OXFORDSHIRE			
Botanic Garden Oxford.	Dawn to dusk.		
SOMERSET			
Clevedon Court, Clevedon.	Mondays, Weds. & Sats.	2.30–6	6d.
STAFFORDSHIRE			
Alton Towers, Alton			
WARWICKSHIRE			
Shakespeare Garden, Stratford-on-Avon			
Warwick Castle, Warwick.	Weekdays, Tickets from 7, Mill Street.	10–4:30	2 shillings
WESTMORLAND			
Levens Hall, Nr. Kendal.	Thurs. and Sat. afternoons.		
WILTSHIRE			
Iford Manor, Bradford-on-Avon.		10–7	6d.
Longford Castle, Salisbury	Wednesdays		6d. Free on Sunday.
Longleat Nr. Frome.	Mondays, Thurs. & Saturdays.		
Wilton House, Wilton.	Wednesdays and Sats.	10–4	2/4d.
YORKSHIRE			
Castle Howard.	Weds. Thurs. and Sats.	1–5	1 shilling
DEVONSHIRE			
Glen Lyn, Lynmouth	Weekdays		6d.

Name of House	*Owner*	*Open*	*Admission*
CHESHIRE			
Eaton Hall, Chester.	Duke of Westminster	Weekdays in summer	1 shilling
DERBYSHIRE			
Chatsworth House, Nr. Rowsley.	Duke of Devonshire	Tues. Wed. Thurs. mid-June to mid-August. 11–3:30	1 shilling
DEVONSHIRE			
Port Eliot, St. Germans.	Earl of St. Germans	Application to Estate Office	
HAMPSHIRE			
Beaulieu Abbey, Beaulieu.	Lord Montagu of Beaulieu	9–6 P. M.	6d.
KENT			
Ightham Mote, Ivy Hatch, Nr. Sevenoaks.	Sir Thomas Colyer-Ferguson, Bt.	Fridays 3–6	1 shilling
Knole, Sevenoaks.	Lord Sackville	Thurs. 2–5, Fri. 10–5, Sat. 2–5.	2 shillings
Penshurst Place, Penshurst.	Lord de L'Isle & Dudley	Tues. Wed. Thurs. Fri. Sat. 2–5. Tickets at Post Office, Penshurst.	1 shilling
LINCOLNSHIRE			
Belvoir Castle, Near Grantham	Duke of Rutland	Mon. Thurs. & Sat. after July 1st.	
NORFOLK			
Holkham Hall, Holkham.	Earl of Leicester	Shown on written application to the Estate Office.	
WARWICKSHIRE			
Warwick Castle, Warwick.	Earl of Warwick	Weekdays 10–4:30. Tickets from 7, Mill Street	1 shilling
Kenilworth Castle, Nr. Leamington.	Earl of Clarendon	Weekdays	6d.
WILTSHIRE			
Longford Castle, Nr. Salisbury.	Earl of Radnor	Wed. 10–7. Free on Sunday.	6d.
Longleat, Nr. Frome.	Marquess of Bath	Mon. Thurs. and Sats. in summer.	
Wilton House, Wilton.	Earl of Pembroke	Weds. and Sats.	2/4d.

In addition to the above the interested tourist-gardener will be glad to learn that nearly all the famous gardens and parks in England have been thrown open due to the efforts of a most unique organization. The Women's Committee of the National Memorial to Queen Alexandra has as its object the showing of private gardens and parks to visitors and other garden-minded folk in June.

There will be an entrance charge of one shilling (25¢) per person. To secure a list of these gardens and the dates on which they will be open write to the National Memorial to Queen Alexandra, 2 Windsor House, Victoria Street, S. W. 1.

The Federated Garden Clubs of New York State have published a list of speakers for garden clubs in the vicinity. This is so helpful that the National Garden Association wishes that each garden club federation—whether state, city or county would send in their list of speakers so that these might be published for the benefit of the clubs in their state. The following are on the list compiled by the New York State Federation:

PROF. HENRY R. FRANCIS, of the N. Y. State College of Forestry, Syracuse University. Will give free talk on 'State Parks and Forests of N. Y. State' if three clubs in near-by communities will have him on consecutive days.

MISS HILDA LOINES, F.R.H.S., 3 Pierrepont Place, Brooklyn, N. Y. 'A.B.C. of Gardening,' 'Old Spain to the Sierras in California,' 'Little Gardens' and 'Cottage Gardens.' Hand colored slides.

MRS. ARTHUR KNAPP, Bayside, Long Island, N. Y. 'Preparation for Spring,' 'Flowers in Mid-Summer,' 'Peonies,' 'Delphinium.'

CARL STANTON, Peterborough, New Hampshire, P. O. 207. Garden Lectures—A series of well illustrated intimate talks on various garden subjects.

MRS. WHEELER H. PECKHAM, Davenport Neck, New Rochelle, N. Y. 'Narcissus,' 'Miscellaneous Bulbs,' 'Iris,' 'Useful Plants,' 'Home Gardens,' 'How We Use Beautiful Plants,' 'Naturalizing Bulbs.'

CHESTER JAY HUNT, Little Falls, New Jersey. Varied subjects on spring-flowering bulbs. Fee $25.

MRS. ALBERT SCHWAB, 250th Street and Waldo Avenue, New York. 'Landscaping Your Own Garden,' illustrated.

A. HERRINGTON, Madison, New Jersey. Illustrated by colored slides. 'Lilies, Iris, Bulbs, Annuals, Roses, Trees, Evergreens and Flowering Shrubs.'

MIRIAM A. CAMPBELL, 792 Jewett Avenue, Westerleigh, Staten Island, N. Y. 'Wild Flower Gardening—Collecting and Establishing.' 'Wild Flower Gardening—Rocks, Walls and Planning.' Two separate lectures, illustrated with hand colored lantern slides.

ANNIE R. BLANCHARD, 17 Hillside Avenue, Melrose, Mass. 'The Winter Indoor Garden,' 'Summer Outdoor Garden,' 'Our New England Heritage.'

MISS ANNA BIDDLE FRISHMUTH, 1700 Walnut Street, Philadelphia, Pa. 'Rock Gardens,' 'Highlights on Landscape Architecture,' 'Estates and Home Gardens,' 'Salem Gardens.'

MISS AMY L. COGSWELL, 38 Lincoln Avenue, Norwich, Connecticut. 'The Story of the Pleasure Garden,' 'Old Fashioned Gardens,' etc.

WALTER PRICHARD EATON, Twin Fires, Sheffield, Mass. 'Gardens Not Made with Hands,' (especially Western Gardens).

LAURA LEE ROGERS, Boudinot Place, Elizabeth, N. J. 'Plants in the Names of Flowers,' 'Poetry and History in Flower Names.' Special adaptation of these lectures made in addition to children.

MR. L. W. BRIGGS, Landscape Architect, 10 East 43rd Street, New York. Lecturer on Garden Design at The N. Y. School of Fine and Applied Art. Illustrated talks for Garden

Leonard Barron, Editor of GARDEN & HOME BUILDER, and President of the National Garden Association, gives a practical gardening radio talk over station WEAF, New York, on the second and fourth Mondays each month at 11:45 A. M. the dates for this month being the 7th and 21st. Mr. Barron was one of the first speakers over station WEAF and has been broadcasting his garden talks regularly up to this time. In these talks the current questions of the moment are given attention.

—ELLEN D. WANGNER, *Secretary.*

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YOUR GARDEN IN MAY

T. A. WESTON

In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind.; Quincy, Ill.; Denver, Colo.

NO MONTH in the year brings more pleasure to the gardener than the 'merry month of May.' Spring has now advanced beyond the point when it can let loose trick weather that savors of winter. Everything is growing; Nature is happy! The trees put forth their leaves, lawns are at their brightest, and wild as well as garden flowers are already making a show. And, too, the bugs are also settling down to business, and the gardener must snap out of his somnambulism if, up to now, he has been content to take things as they come.

The major part of the digging operations will have been completed and what remains to be done will be accomplished to the rhythmic timing of the radio exercise man every morning so that the evening may be devoted to the necessary work of seed sowing, planting, and so forth. Hail to the man who invented Daylight Saving for only by its grace are many of us able to get in an evening hour in the garden at this early period of the year.

The Pleasure of Looking Around

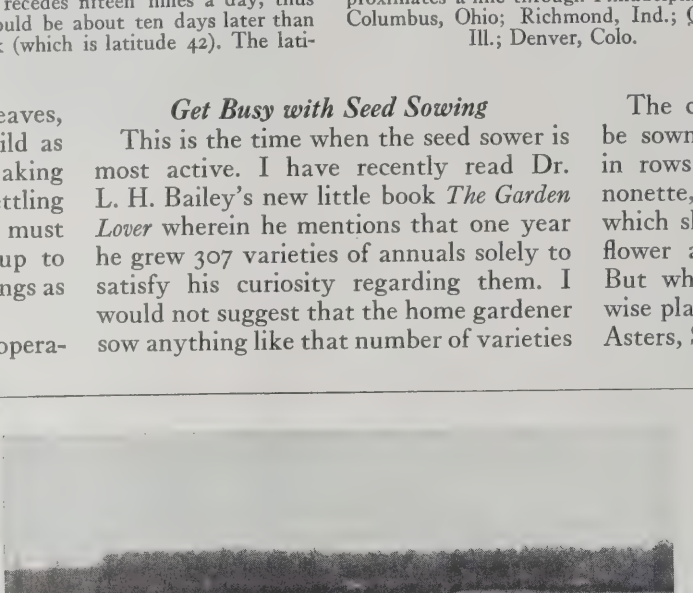
If, perhaps, one gets home too late to do anything in the evening (and we all do at times), one can at least have a look around to see what has happened since rushing off to catch that 7:30 train. And lots of things do happen. The Tulips, if one has a nice collection of Darwins, Breeders and Cottage varieties, will be fast coloring up and, if a rockery is among the features of the garden, it will be a source of delight, for May is the month when most of the rock plants are at their best. The Primrose dell—and almost anyone with a semi-shaded spot can have Primroses of various kinds—will also be making a show. Yes sirs! May is an interesting month for the gardener who has made some headway in garden development. And the enthusiast will, during his rambles around the garden, make many notes; every gardener should keep a note book and treasure each annual edition with care, for some of the seeds he sows may not flower for two or more years and no one's memory is reliable.

Get Busy with Seed Sowing

This is the time when the seed sower is most active. I have recently read Dr. L. H. Bailey's new little book *The Garden Lover* wherein he mentions that one year he grew 307 varieties of annuals solely to satisfy his curiosity regarding them. I would not suggest that the home gardener sow anything like that number of varieties of annuals and perennials combined, in any one season, but those who have the space should not let a year pass without trying a few things they are unacquainted with. They need not necessarily all be novelties, as any one will realize, after perusing some of the European seed lists that offer two or three thousand kinds of flower seeds. But even a good domestic catalog usually offers something the gardener has not previously tried out.

As before mentioned, never risk choice or rare hardy seeds in the open ground; use small pots and sink them in a frame filled with peat moss ashes to keep th moist. And, above shade heavily, b watch carefully for g mination. Some of seedlings of alpi plants appear as min specks comparable those of some gre house subjects.

The coarser and commoner seeds be sown right in the ground prefera in rows excepting such things as M nonette, Poppies, Eschscholtzias, e which should be sown where they are flower as they do not transplant w But where frames are available it i wise plan to use them for such annual Asters, Stocks, etc., as well as most pe nials; one can then be shade them from hot sun protect them from washo Of all the bugbears of sp gardening torrential do pours are the worst, ticularly if your ground sl in the least degree.



DAFFODILS FOR EVERYONE

This scene is typical of the new domestic industry of Daffodil growing although it looks like a bit of Holland. The new domestic industry, however, is largely in the hands of Hollanders on Long Island, in Virginia, state of Washington, Oregon, North Carolina, South Carolina, southern Illinois, and Michigan. There would seem to be sufficient stock to satisfy all reasonable demands in the standard and popular varieties. Plantings of the rarer kinds are still largely under quarantine restrictions having to be grown for three years. A total of 1063 varieties have in fact been imported under special permit. Stocks of these will be increasingly available. The crop from the four and a half million bulbs imported in 1926 for propagation will be available for commercial stock this fall. But after all that's not too many for this lovely spring flower. The wise planter will not delay in placing early orders for fall delivery

Hurry Up with Planti Perennials

This is also a great plan month. All kinds of pe nials should be shifted their flowering quarters a earliest possible moment early blooming subjects ing first consideration. suming you have to buy plants required, make the ground is ready so they may be planted as as they arrive. If, like a gardener, you raised ba of different things last and propagated other division or cuttings—(ing them over the win special beds or frames no time in shifting th their designated pos Pansies and Violas so c over will be growing and if neglected, the soon become leggy through overcro

Rose and Shrubs, Too

It is not too late to plant Roses bushes have been carefully stored sheds up to now. Better still, howev the plants that are available in pot a few firms make a point of pott their Roses during winter, carryin along in cold houses and standin doors in April. Such plants will be a growing at this time and may be p without a check any time this mo even later. And if (continued on pa

Plant your own TREES and save 90%

RAISING TREES at home pays dividends in happiness—and in dollars and cents.

You can love trees for their own sakes—you can get an invigorating experience from trees and make your home more hospitable with them—and, *in addition*, if planted young, these trees will make a few dollars grow into many dollars! They are one of the surest and most profitable investments you can make.

The Living Tree Guild offers you a practical, successful way to be among those who profit by having their own trees.

The Siberian Elm

The illustration shows this miraculous tree only five years from planting! It grows twice as fast as the American Elm. It is graceful, beautiful, and hardy beyond compare. *The Living Tree Guild* offers the finest stock of these rare trees available in America. Delivered as 4 to 5 foot whips with complete root systems.

Single trees—$2.50. Three trees—$7. Ten Trees $20.

See next page

The Living Tree Guild

THE *Living Tree Guild* is the only organization of its kind in the world. It offers a personal service in tree growing.

It delivers directly to your home the finest trees and plants at the most economical prices. These trees and plants are selected and grown on contract under ideal conditions in five different states with the advice of the most expert horticulturists in the country.

With each shipment the Living Tree Guild sends instructions for the care and use of the trees. Finally, this organization backs up everyone who orders its trees with a ***guarantee of replacement*** within the year if any tree fails to flourish.

The Guild offers to the layman a way to know trees and shrubs and flowers—at slight expense—and with every assurance for success!

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Shade Trees

SIX TREES in any combination, $6.00
PER DOZEN - - - - - - $10.00

THERE is a famine of shade trees in America. The demand for the finest varieties is greater than the supply. However, The Living Tree Guild has been exceedingly fortunate in securing a good supply of well-grown specimens. We offer these, with full guarantee.

NORWAY MAPLE.—One of the most popular of all shade trees, and one that can be depended upon to give good results under almost all soil conditions. A symmetrical grower of globular form. 4 to 5 feet high when delivered.

LOMBARDY POPLAR.—Of pyramidal growth. One of the most rapid growing of all deciduous trees. Height 4 to 5 feet when delivered.

WHITE-FLOWERING DOGWOOD.—Semi-dwarf in growth. Beautiful at all seasons of the year. In the spring when in bloom it is a sheet of white—throughout the summer months, a mass of deep green, clean looking foliage—in the fall, one of the most gorgeously colored of all our deciduous trees—in winter, attractive with its scarlet berries. Height, 4 to 5 feet when delivered.

PUSSY WILLOW.—Can be grown as a dwarf shade tree or as a tall shrub. Here is the familiar, attractive Pussy Willow—one of the most poetic of trees. Height, 3 to 4 feet when delivered.

SCARLET OR RED MAPLE.—Gives best results in heavy soil, will grow satisfactorily in damp situations, although it also gives good results when grown in well drained soil. Height, 4 to 5 feet when delivered.

SUGAR MAPLE.—Similar in growth to Norway Maple, but taller. In every way a desirable variety, extra hardy; foliage in the fall turns brilliant lemon yellow. 4 to 5 feet when delivered.

Hardy Shrubs

TWELVE shrubs in any combination, $6.00

BUTTERFLY SHRUB (Buddleia Magnifica).—Creates an amazing profusion of fragrant rich blooms in general effect like lilacs—each bush remains a mass of color throughout the summer. 2 to 3 feet when delivered, will grow to 4 to 5 feet. Butterflies are almost always hovering about this bush.

HARDY HYDRANGEA (Hydrangea Paniculata Grandiflora).—Showy blooms, frequently ten inches or more in length—pure white, turning delicate pink with age. 6 to 12 inches when delivered.

PURPLE LILAC (tall).—The shrub our grandmothers gloried in. Large clusters of rich, fragrant lilac flowers—early spring blooming. 18 to 24 inches when delivered.

RED WEIGELA (Weigela Eva Rathke).—Deep garnet—red flowers in great abundance throughout the entire summer and well into the fall. 18 to 24 inches when delivered.

DOUBLE PINK DEUTZIA.—Tall, strong, and symmetrical. Freely flowers with double blossoms in June. 18 to 24 inches when delivered.

GOLDEN BELL (Forsythia).—The first herald of spring flowers. Branches gloriously burdened with yellow flowers before the foliage comes out. 18 to 24 inches when delivered.

RED TWIG DOGWOOD (Cornus Siberica).—Especially desirable for winter effect, the brilliant red bark showing up in splendid contrast with drab surroundings. 18 to 24 inches when delivered.

MOCK ORANGE (Philadelphus).—The old-fashioned Syringa of our grandmother's garden. Fragrant. Attains great height with age. 18 to 24 inches when delivered.

BUSH HONEYSUCKLE.—If you want birds around your home grounds plant this wonderful shrub. Its early winter red fruit is a magnet to the songsters. Produce airy brilliant pink flowers throughout June. 18 to 24 inches when delivered. Give it plenty of room and it will develop a beautiful bush perhaps ten feet high and eight feet wide.

FRAGRANT BUSH HONEYSUCKLE. — Delightfully fragrant, creamy pink flowers early in the spring, even before foliage appears. 18 to 24 inches when delivered.

BRIDAL WREATH (Spirea Van Houttei).—Absolutely hardy and the joy of every novice in gardening. Thousands of pure white blossoms completely cover every bush. 15 to 18 inches when delivered.

SNOWBERRY. — The shrub that magically transforms itself from pink flowers in July and August to clusters of large, pure white wax-like berries that are conspicuous and decorative throughout the fall. 18 to 24 inches when delivered.

Hardy Perennials

BOX A (51 plants) - - $8.50
BOX B (102 plants) - $15.00

JAPAN IRIS.—Various shades of blue, also pure white. They give best results when planted in fairly heavy, well enriched soil.

HARDY PHLOX.—The great panicles of bloom make the Hardy Phlox one of the most showy of all objects on the lawn during the summer months.

DOUBLE HOLLYHOCKS.—Extra fine flower stalks, frequently well over five feet in height. A glory for the back fence line.

HARDY CHRYSANTHEMUMS.—When other flowers are entering on their winter's rest, these Hardy Chrysanthemums are in their prime.

COLUMBINES.—Can be used in full sunlight or partial shade. Graceful airy flowers.

SHASTA DAISY.—One of the finest of Luther Burbank's productions. Pure white flowers, frequently 2½ or 3 inches in diameter.

LARKSPUR.—Flower stalks produce blooms of various shades of blue, the stalks sometimes over five feet in height.

PEONIES.—Pink, red and white. These varieties offered by The Living Tree Guild have been pronounced by experts as the finest on the market.

ANCHUSA DROPMORE. — Heavenly blue flower, an inch or more in diameter.

BABY'S BREATH.—One of the most popular old-fashioned perennials.

ORIENTAL POPPY.—Flowers from five to seven inches across on tall stems. A gorgeous variety.

HARDY VIOLET.—The finest of the single flower varieties for growing out-of-doors.

CANTERBURY BELLS.—Profusion of bell-shaped blue and pink flowers through July and August.

COREOPSIS.—The best of the hardy yellow flowers for mass effect. Blooms constantly from June to frost.

HIBISCUS (or Marshmallow).—Enormous blossoms sometimes 8 or 10 inches in diameter, white and pink; produced from early August to frost.

JAPANESE PINK LILY.—The best of all the Japanese lilies; these frosted white, crimson edged flowers are lovely beyond words.

LYSIMACHIA (or Loose-strife). — Curved white spikes from July to September. Grows about 2 feet high. Especially fine for cut flowers for the table.

Norway Spruce

The hardiest, fastest growing, and most generally adaptable evergreen

FOUR years old—double transplanted specimens—with finest root systems. These trees average 6 to 12 inches on delivery, not counting the roots which are as large as the upper trees. The prices are made possible by the special method of packing in spagnum moss which enables us to deliver these trees to any address in the United States, absolutely fresh. Instructions for planting, guarantee of replacement without cost within the year if any fail to thrive, and suggestions for their many uses accompany each shipment. Because these trees come from the far north, they may be planted successfully as late as June 20th.

One dozen - $3.95
Two dozen - $7.50
100 Trees - $25.00

Special rates on thousand and ten thousand lots

Evergreens

TWELVE TREES in any combination, $15.00
Single trees at $1.50

AMERICAN ARBOR VITAE.—12 to 18 inches when delivered. Will make a tall pyramid up to 30 feet but can easily be kept trimmed down.

GLOBE ARBOR VITAE.—6 to 8 inches when delivered. Will make a lovely dwarf globe three to four feet high.

PFITZER'S JUNIPER.—9 to 12 inches when delivered—will make a gorgeous decoration like an explosion of green.

RED PINE.—8 to 12 inches when delivered, will grow to 40 feet. One of the choicest of the tall pines.

MUGHO PINE.—Dwarf tree, extremely hardy, very striking with its pin-wheels of needles, 6 to 8 inches when delivered.

CANADIAN HEMLOCK.—A tree especially hardy and fragrant. Will grow either in sun or partial shade. Glossy dark green foliage reminiscent of the deep woods. 8 to 12 inches when delivered.

GREEN RETINOSPORA.—A decorative evergreen for foundation planting. 8 to 10 inches when delivered—will grow vigorously and is easily trimmed.

GOLDEN RETINOSPORA.—The tips of its foliage are a bright golden hue. 8 to 10 inches when delivered.

BLUE RETINOSPORA.—Like the other Retinosporas except that its foliage is a cheerful blue. 8 to 10 inches when delivered.

See next page

Every tree is covered by Guild Life Insurance

and will be replaced at no cost to you within the year if it fails to thrive. The Living Tree Guild backs up everyone who plants these super-quality Guild trees.

A Surprise Tree—*Free!*

A beautiful guaranteed specimen of unusual importance and interest will be included in every shipment of $5 or more—with the compliments of The Living Tree Guild. The name of this extra specimen will be on the tag.

With every shipment of shrubs or flowers amounting to $5 or more an appropriate surprise plant will be added, instead of a tree.

This will be our token of appreciation to everyone who plants trees and flowers this spring.

Every day counts!

Why not live with more trees?

Mail this order form!

The Living Tree Guild

468 Fourth Avenue New York, N. Y.

Special Offer

.....Siberian Elm (one tree $2.50; three trees $7.00; ten trees $20.00)

Shade Trees

.....Norway Maple	Any combination	.....White Dogwood
.....Sugar Maple	6 Trees $6	.....Pussy Willow
.....Lombardy Poplar	12 Trees $10	.....Scarlet Maple

Hardy Shrubs

.....Butterfly Shrub	Any combination $6.00 per dozen	.....Red Twig Dogwood
.....Hardy Hydrangea		.....Mock Orange
.....Purple Lilac		.....Bush Honeysuckle
.....Red Weigela		.....Frag. Bush Honeys'kle
.....Double Pink Deutzia		.....Bridal Wreath
.....Golden Bell		.....Snowberry

Hardy Perennials

.....Japan Iris	Check One)	.....Baby's Breath
.....Hardy Phlox	☐ Box A..$8.50	.....Oriental Poppy
.....Double Hollyhocks	51 plants	.....Hardy Violet
.....Hardy Chrysanthem'm	3 of each	.....Canterbury Bells
.....Columbines	or any combination	.....Coreopsis
.....Shasta Daisy	☐ Box B..15.00	.....Hibiscus
.....Larkspur	102 plants	.....Japanese Pink Lily
.....Peonies	6 of each	.....Lysimachia
.....Anchusa Dropmore	or any combination	

Evergreens

.....American Arbor Vitae	Any combination $15.00 per dozen	.....Canadian Hemlock
.....Globe Arbor Vitae		.....Green Retinospora
.....Pfitzer's Juniper		.....Golden Retinospora
.....Red Pine		.....Blue Retinospora
.....Mugho Pine		

Norway Spruce

.....One Dozen $3.95 .....Two Dozen $ 7.50 .....One Hundred $25.00

Please send me the plants that I have indicated above.

☐ **Fully Prepaid Shipment.** Send with this order exact amount on price list and add 10% to cover transportation. If transportation cost is less than 10% a refund will be sent to you after shipment.

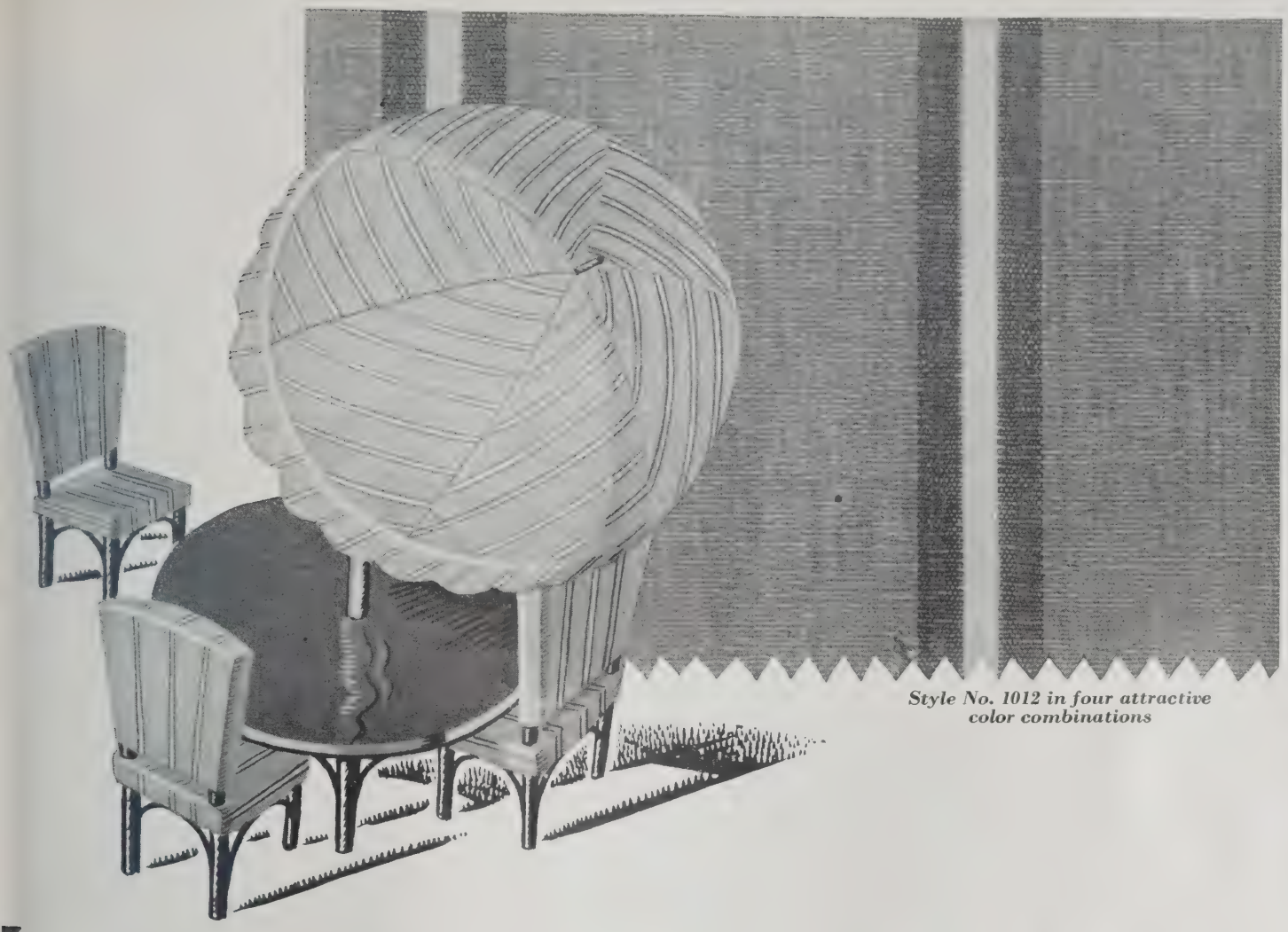
☐ **Express Collect.** Send with this order exact amount on price list, and transportation charges will be collected upon delivery.

☐ **C. O. D.** If you do not remit with this order shipment will be made C. O. D.

Name.....

Address.....

City.....*State*.....



Style No. 1012 in four attractive color combinations

...unproof. .Rainproof. .Mildewproof a *real* porch fabric

DON'T worry about the sun—it cannot fade a fabric finished this new way. Never mind the rain—these Lancaster Fabrics are waterproof. Don't fear the muggy weather—not even mildew will affect this new finish.

This remarkable finish, now applied to Lancaster Stayso Slip Cover Cloths and Dobby Denims, gives these standard fabrics a score of new uses. It makes them ideal for porch and terrace furniture, for awnings and beach umbrellas, for bathing capes and bags. Yet it retains all the fresh coloring of the fabric itself, adding to its durability, usefulness, and beauty.

Ask at your favorite store to see this new line. See for yourself how attractive it would be in your own home.

If your merchant does not carry Lancaster Stayso Slip Cover Cloth and Dobby Denim, write us and we'll send you samples and tell you where you may be served. Please let us know the dominant color you would prefer.

Amory, Browne & Co.

Dept. D-8, Box 1206, Boston, Mass.

LANCASTER FABRICS

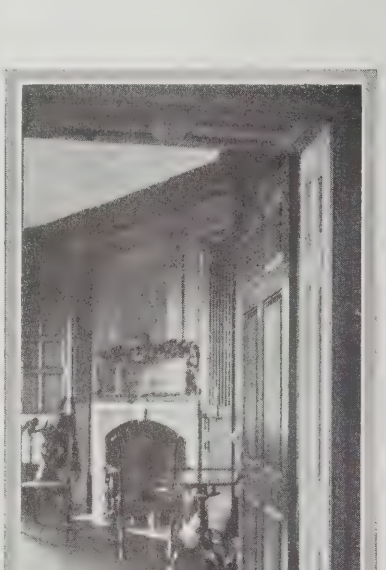
Brass HARDWARE in *the* American *Tradition*

For Colonial doorways like those in the Metropolitan Museum there is correct hardware by Sargent

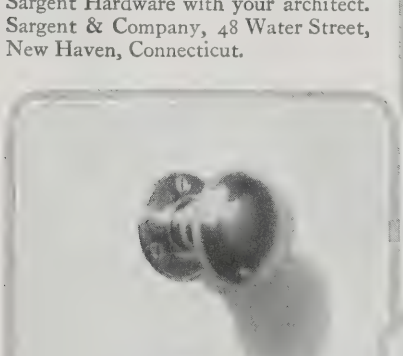
MARMION was built early in the seventeen hundreds for the Fitzhughs of Virginia. Tradition has it that its mural decorations were painted by a befriended Hessian prisoner. The hardware on its well-preserved door is of brass.

The Metropolitan's exhibitions of Colonial interiors are treasure mines for those who build in the American tradition. Sargent also has come to their aid . . . with standard sets of correct hardware in solid brass or bronze for the complete house . . . with rim locks, entrance handles and knockers similar to Early American originals. This hardware by Sargent is exactly made. It operates quietly and smoothly. It will outlast generations of users.

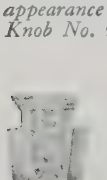
A helpful booklet is "Hardware for Utility and Ornamentation." A postcard will bring it to you free. Select Sargent Hardware with your architect. Sargent & Company, 48 Water Street, New Haven, Connecticut.



The rich brown-red tones of the Marmion room are set off by the gleaming hardware on its door. On the inside is a heavy, brass rim lock. On the outside, a small knob and bright keyplate. Designs similar to these are manufactured by Sargent in present-day New England.



This plain brass knob and keyplate is similar to that on the Marmion door. Ask for knob No. 1602 *and keyplate* 711. *Sargent makes a brass rim lock, too, No.* B3525B *in the list of designs. The door knob of cut glass and the quaint tear-drop keyplate are unostentatiously decorative, and give a trim appearance to interior Colonial doors. Knob No.* 2018. *Keyplate No.* 817.



SARGENT
LOCKS AND HARDWARE

Your Garden in May

Continued from page 298

you feel desirous of trying some of the new, more expensive sorts, the pot stored plants are the ones to buy inasmuch as you can be sure of seeing them live.

It is not too late to plant some sorts of shrubs and trees. If they have been kept in cool storage all is well and good; and if lifted from the open ground there is no reason why they should fail if handled properly. The owner of an auto who desires to fill odd spaces with shrubs need not hesitate; the nearest nurseryman will welcome a cash and carry buyer with open arms and lift and load into the car anything fancied. Some growers, these days, plant shrubs, etc., in wire baskets so that they can lift the plants at any time without a severe check.

Bring Out Your Bulbs

If you have not planted your first batch of Gladiolus do so right away, but reserve a sufficient number to make two or three more plantings between early May and the end of June. If you have an insufficient quantity for this purpose, buy a few more while you have the chance, even if the pocketbook will not allow anything better than mixed bulbs. Maybe you can still obtain well kept bulbs of certain Lilies; if so do not hesitate. As the general run of hardy Lilies were none too plentiful this season, there may be some difficulty in securing many sorts, especially the early kinds, but cold stored Rubrum Lilies are always to be had and bulbs of the so-called Easter Lilies, Lilium longiflorum giganteum or L. harrisi. Maybe you have not tried Easter Lilies in the garden, but spring planted, cold storage bulbs grow readily and flower before the fall. If planted deeply, say 7 or 8 inches and given a nice situation, they will, with just a little protection, survive an average winter. I have had these Lilies come up year after year, the only protection being leaves that pack over where the bulbs were planted.

Get the Dahlias out of the cellar, and while it is not advisable to plant before the end of the month, the roots ought to be divided and laid either in a frame or in trays of peat moss or soil to prevent shriveling. Give them full light but do not expose to sunshine. Ismene calathina and Galtonia (Hyacinthus) candicans are bulbs that should not be overlooked. The red flowered Sprekelia and its near relative Amaryllis halli are also worth a place in the garden.

If Cannas are desired, order your requirements for delivery at the end of this month. Cannas are not the easiest things to carry over the winter, and even if they survive they do not give full satisfaction unless given an early start, and, as a rule, few amateurs have the necessary heat and facilities to get them started early, and it is therefore far better to buy as needed. That is true of Tuberous Begonias, too, but they are a simple proposition. Being small, a few tubers can be started in a box of moss or peat in any place where the temperature runs up to 80 degrees or so; on the shelves above the stove, on or near a radiator will also serve so long as it is not too hot. Once started (and this should be done at once if not already under way) the tubers can be either potted or boxed in soil and be given a light position so that they can make some nice leaves by planting-out time in early June. Begonias like rich lea and if shaded from hot sunshine, b in dense shade, they will prove delight. Lots of water needed growing, of course.

Is the Watering Outfit O. K.

It is not unlikely that som spells will necessitate watering, cially for newly planted stock and seedlings. If you can, invest in a p line of overhead sprinklers. Ov sprinkler pipes have it all ov ordinary hose and small sprinkle the portable form permits one to one patch while working in a Holding a hose, in most cases, is scheme; if the job is thoroughly means an awful waste of time; the surface is wetted it is more useless. Do not neglect the hoei after each watering—even thos that do not have water; it wi serve moisture, keep down weeds a lot of good otherwise.

If you are the happy or greatl ried possessor of a frame fille seedlings from sowings made la and, if they include certain Pri and alpines, they will not be large, so watch and shade ca Some of the seeds may be germ at this time and the least dryne mean the end of one's hopes.

Sowing Vegetable Seeds

Digging operations here shoul finished, and a real start made sowing of early Peas, Onions, P Parsnips, Lettuce and Spinach. may all be sown if the work is no but do not delay. Since the di Peas come in at varying dates, t nothing gained by holding back; in my own section, it is more useless to make late sowings o Bush Beans, Beets, Carrots an other vegetables may be sown ea month, followed by later batch Corn, Limas, Cucumbers, Sq Melons and such tender subjects be held up for a week or so unl soil is extra warm. Generally sp it is better to buy plants of To and Peppers toward the latter the month; unless one has facili raising these in heat in April, the yield their maximum. All varie the Cabbage tribe should be sow if you want real success with flower, buy a few plants. Incide if your soil is at all acid, you hope to make a name as a gro Brassicas; on such soil club roo pest, and it can only be circumven periodical dressings of lime. Ov of lime should be avoided as too n as bad as none at all. To guard damping off among all kinds o lings water occasionally with Se this substance by the way is remedy for black rot in Gladiolu

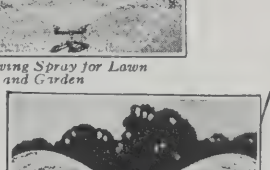
A Word on Bugs

Keep an eye on bug activities caterpillars will already be on th page, aphids are certain to be on fruit trees and Roses. The caterpillars can be scotched wi of the standard insecticides, if use the pests are small, but later, only sprays will get them. If poison are used choose the double purpos bordeaux arsenate, and catch s the diseases also.

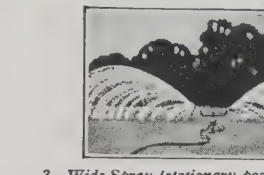
AN URN or a bird-bath of beautiful Graystone will add a fresh element of beauty to your garden, yet seem to have lived years there. Its mellow gray blends at once with sky and leaves. Graystone is the garden pottery of Weller Ware. It is often pure Greek in effect. Its appearance suggests great price. Yet it is never expensive. Place an urn or a vase near a flight of steps or a low wall. Arrange an urn of vines where a hard place in the garden precludes planting. There are pedestals for sun-dials, child figures, footed jars. Weller Ware offers also a rich variety of colored art pottery and distinctive kitchen ware. Paula Morgan, authority on garden and home decoration, will give free advice regarding any decorative need. Write her in care of The Weller Potteries, Zanesville, Ohio.

WELLER WARE

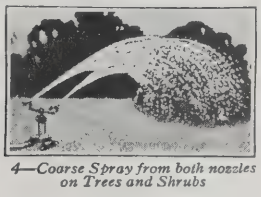
1—Revolving Spray for Lawn and Garden



2—Wide Spray (stationary position) adjusted to sprinkle narrow strip

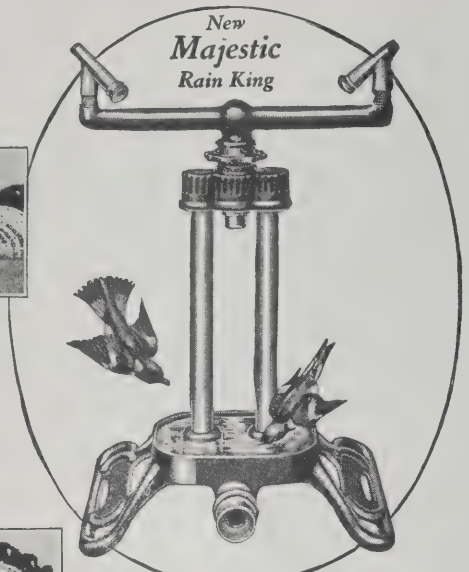


3—Gentle Spray from both nozzles on Flowering Plants



4—Coarse Spray from both nozzles on Trees and Shrubs

New Majestic Rain King



See it at your hardware or seed dealer's. If he can't supply you, send us price and get it on money-back approval, charges paid. 15-in. high, $5; 24-in. high, $6. (*Denver and West, $5.50 and $6.50*).

Sprinkler Top · · · Bird Bath Base

Entirely New Idea for Winning Feathered Friends while Watering Lawn and Garden

This new MAJESTIC Rain King, like the famous STANDARD and GIANT Rain King Sprinklers, gives you complete control of Distance, Direction, Stream, Spray or Cloud-like mist—whirling or stationary.

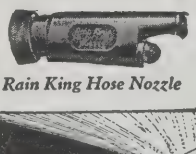
In addition it has an ornamental bird bath at the base. Majestic's height enables you to stand it amid flowering plants or vegetables and play water well out over the tops.

Order early, while birds are yet choosing nesting places—this will help attract the little warblers to your place.

Rain King Sprinklers have a nation-wide preference because they can easily and quickly be adjusted to throw any kind of stream desired, gentle spray, rainbow mist, drenching downpour or solid jets—and throw it where wanted in large or small circles, narrow strips bordering walks, or on odd plots and angles hard to reach with ordinary sprinklers.

Indeed a Rain King can throw water farther than any other on the same pressure. Illustrations above picture four of the limitless variations, all easily, quickly made by adjusting the nozzles and the set wheel.

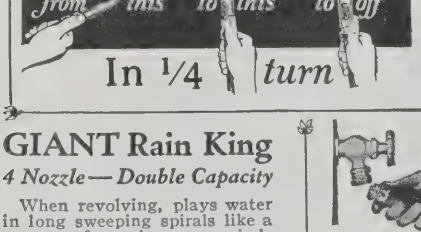
Ask your hardware or seed dealer to show you these splendid inventions. If he can't supply you, send us the price and we'll ship any model on money-back approval, prepaid.



Rain King Hose Nozzle

Rain King

The BEST LAWN SPRINKLERS MADE



Only Nozzle that Does It

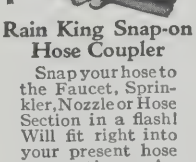
Throws any stream from a Solid Jet, to Spray, to Complete Shut-off, by a quarter turn—that's the Rain King Hose Nozzle. No packing, adjustments, or interior mechanism to get out of order, hence it's wear-proof, leak-proof, fully guaranteed. Throws more water farther than any other known, size for size. Solid brass, $1.50.

GIANT Rain King

4 Nozzle—Double Capacity

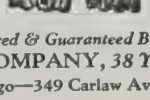
When revolving, plays water in long sweeping spirals like a gorgeous fountain — any circle from 5 ft. to 75 ft. across, according to pressure. Easily adjusted to stationary position.

Adjustable to height, fully extended, 4 ft., as well as to distance, direction, spray or stream. "Best sprinkler for golf greens we ever had," says John Crawford. Ideal for large grounds, parks, etc. $12.50. Denver, West, $14.50.



Rain King Snap-on Hose Coupler

Snap your hose to the Faucet, Sprinkler, Nozzle or Hose Section in a flash! Will fit right into your present hose connections. An amazing invention. Saves twisting, kinking and wearing hose. Solid brass, 60c each.



STANDARD Rain King, $3.50 *Denver West $3.75*

All sprinklers in one. Gives you quick and complete control of Stream, Spray, Distance, and Direction. Each brass nozzle a complete Sprinkler, hence plays any two streams in one or two directions at once as well as in circles. Just the right range for average size lawn or garden.

Manufactured & Guaranteed By

CHICAGO FLEXIBLE SHAFT COMPANY, *38 Years Making Quality Products*

5521 W. Roosevelt Road, Chicago—349 Carlaw Avenue, Toronto, Canada

Your Garden on the Pacific

ELIZABETH URQUHART

Go over the garden and put it in order for the summer. If the winter and spring bulbs have finished blooming, and their foliage has matured and turned yellow, they may be taken up and stored in a dry cool place until autumn, or they may be left in the ground, with the exception of Hyacinths which should be taken up every year and in some cases renewed. If left in the ground the soil may be lightly raked and shallow rooted annuals planted in the beds, which will have finished blooming before the bulbs become active next winter. Look after Smilax as it will be making new growth and should be trimmed up with all the old growth cut away and the roots covered with a mulch of old manure; also tie it up with strings to prevent tangling. House, tub, and porch plants must receive attention too and be given a new lease of life for the summer. They will probably need new soil and if it has become hardened and caked at the bottom of tubs or pots, break it up after watering, and mix in sandy loam. If the potted plants are pot-bound, put them in the next size larger pots, and if the plants seem to have outgrown their tubs, replace them with new plants. The Violet beds may also be thinned out, the plants divided and mulched with old manure. Divide also Calla, Agapanthus, Caladium and Waterlilies.

Conservation of Moisture

The rains are nearly over and the moisture now stored in the ground must be carefully preserved, for the gardener must depend on irrigation all through the summer until the early rains in September. The weeds must be pulled up by the roots and removed as they rob the ground of the precious moisture, and the surface of the ground kept constantly cultivated to prevent evaporation. The top soil should be finely worked and raked and made into a soft covering like a blanket, so t will not bake or crack and will k the moisture. This must be follow irrigation, not sprinkling, but a ough soaking of the ground o twice a week, by digging little c to carry the water through the g and also thoroughly soaking tre shrubs. After irrigation the w beds should be covered with dry or with a mulch of old manure leaves, grass clippings or straw. methods are particularly necess the interior valleys where the su are hot and dry.

Preparing for Next Spring

The seeds of many plants which in the winter and early spring m sown now, such as Cornflowers, C bines, Primroses, and Sweet-pea Primroses may be sown in the o a cool shady location, or in shaded and transplanted once before s out in their permanent quart September or October. Hunnem (Mexican Poppy) may also be where they are to grow. All seeds p at this time should be planted dee the ground than earlier in the y the layer of moisture is lower and the surface of the ground is d

Setting out Young Plants

If annuals and perennials a sown have not been set out, do no longer. Those sown in the open g should be thinned out after wa the beds, and if in boxes, ca transplanted to their summer qu This is also a favorable time for out such tender ornamental b plants as Coleus, Cockscomb, etc. Chrysanthemum cuttings m be made by taking the young springing up from the old roo starting them in pots or boxes unt enough to set out.

Your Garden in the South

ETHEL HUTSON

Weather and Soil

May is the dry month along the coast of the Gulf of Mexico, but this does not mean that there is no rain—just less rain than the rest of the year; the sun has gotten hot, and the winds cause evaporation enough to make the Sweet-peas begin to turn yellow and the Shasta Daisies look wilted by evening. It is therefore advisable to soak the ground once or twice a week and break up the surface lightly the following day to hold this moisture, rather than to sprinkle with the hose every day.

Beds and Borders

Beds and borders of annuals can be sown now for summer and fall blooming. Violets, the old reliable for borders, should be taken up this month, all suckers removed, the ground enriched with well-rotted stable manure, and the plants reset, 6 or 8 inches apart. A striped caterpillar attacks Violets frequently, and takes every leaf in a very short time. Arsenate of lime, dusted on late in the evenings will get rid of this. Borders of Portulaca are gay and 'stay put' until August without further attention, and so will Dust (Cineraria) and Golden-feather thrum aureum). Balsam and Vi also be used as borders, but reall better bedding plants. Zinnia, I Gaillardia, Cleome, Everlastings Amaranth, Marigold (both and African do well here in the su Salvia, Cosmos, Centaurea, Sun Mexican Poppy (Hunnemann all be sown in open beds now, continue to flower throughout months. Foliage plants such as Sunrise Amaranthus, Crotons, Caladiums and Acalypha all ma bedding plants for summer, too

Bulbs Going Out of Bloo

In preparing the beds for the m annuals and shrubs, if there is d g damaging the bulbs that are ju back, these should be removed in the shade and allowed to and kept in a dry, dark pla planting time next fall. Some g advise leaving the bulbs in th all the year round, but unless is kept for bulbs alone, they to be injured (*continued on p*

An
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llating
igator

WATERFAN

A
Real
Rainmaking
Machine

FOR WATERING

WNS ❖ FLOWERS ❖ GARDENS

FOR LAWNS AND FLOWERS

GENTLE SHOWERS

The wide fan-shape sprays from the numerous nozzles of the WATERFAN are distributed (over a RECTANGULAR area) like a gentle rain, and as they are waved back and forth over the machine, are very attractive and pleasing to see.

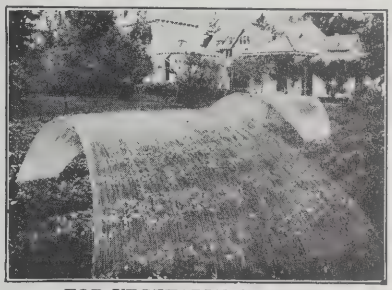
The wetting is done thoroughly leaving no dry corners or flooded sidewalks—a great advantage over rotating sprinklers.

articularly well adapted for
ng slopes and terraces where
levices may be impractical.

Area Covered	Gal. per Minute	Water Pressure	Price
14 x 45 ft.	3½	25 lbs.	$15.00
25 x 45 ft.	5	30 lbs.	$16.50

or circulars.

rder sent post paid.



FOR VEGETABLE GARDENS

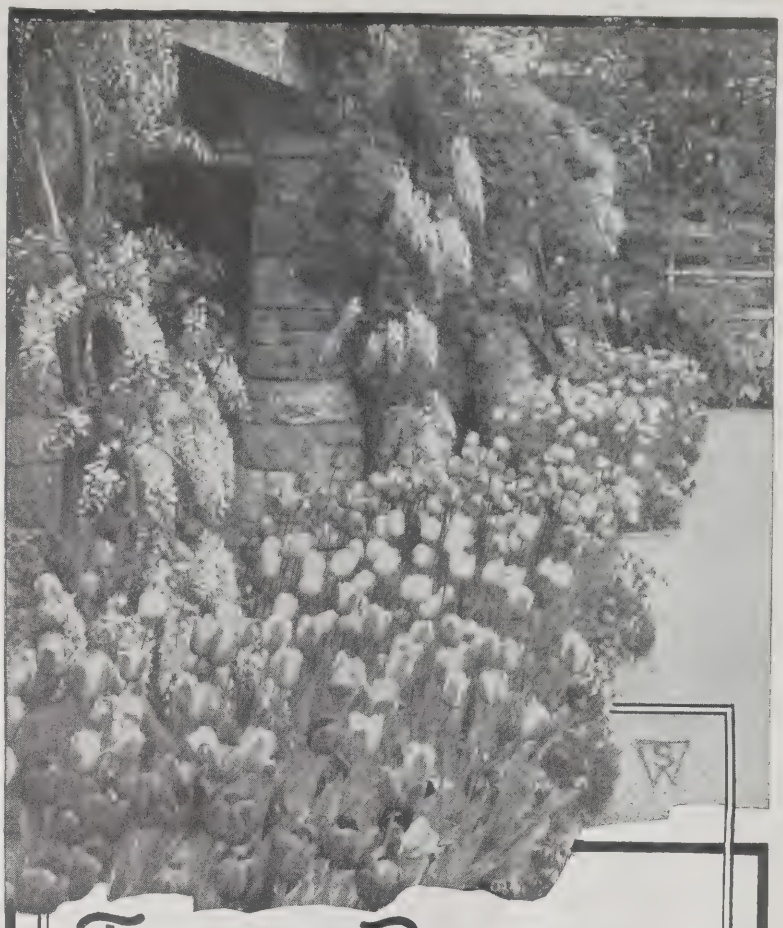
CAMPBELL IRRIGATION COMPANY
MALCOLM C. LUDLAM, *Proprietor*
bury New Jersey

E MILBRADT POWER LAWN MOWER

ou want a beautiful lawn which helps to beautify your me. To obtain same the grass must be properly cut d trimmed, which is easily accomplished with the ILBRADT Power Lawn Mower. It is a simple and rongly built machine, easy to understand and operate. boy 12 years old can run it and do a perfect job of ass-cutting. It cuts 27″ wide and will mow 4 to 6 res per day.

Write for catalog

ILBRADT MANUFACTURING COMPANY
7 N. Tenth Street - St. Louis, Mo.



TULIP BULBS
(May-Flowering)
BUY NOW AND SAVE 25%
Until July 15th—not later

Following our practice of the past few years we are again making a very special offer on the following **Darwin, Breeder** and **Cottage Tulips** and are suggesting a color scheme for border planting. Many lovely color schemes may be had with this class of Tulips. Combinations of several varieties are frequently used in the better gardens to attain certain desired color effects. We believe, however, after many years of planning some of the finest garden displays of these Tulips in America, that they are seen to best advantage if planted in clumps of 25, 50 or 100 of a variety with a definite color scheme in mind. Our Advance Bulb Catalog issued in May lists 155 varieties of these—The Aristocrat of the Tulip Family, but we recommend the following Special Border Collection and suggest that they be planted in the order given.

TEN FINE VARIETIES

	Per 100	Per 1000
Reverend Ewbank—Beautiful soft lavender-violet	$4.00	$38.00
Princess Elizabeth—Beautiful clear deep pink	4.00	38.00
Bronze Queen—Soft golden bronze	5.00	48.00
Dream—Even tone of heliotrope	4.00	38.00
Edmee—Vivid shade of cherry-rose, lighter border	5.00	48.00
Cardinal Manning—Rosy violet, light bronze border	5.00	48.00
Moonlight—Handsome oval shape, soft canary-yellow	5.00	48.00
Philippe de Commines—Deep velvety maroon	4.00	38.00
Clara Butt—An even tone of salmon-rose	4.00	38.00
Apricot—Best described as ruddy apricot	7.00	68.00

25 each of a variety at 100 price; 250 each of a variety at 1000 price.

Special Collection Offer

10 Bulbs each of the above 10 varieties,	100 Bulbs	$5.00
25 Bulbs each of the above 10 varieties,	250 Bulbs	12.00
50 Bulbs each of the above 10 varieties,	500 Bulbs	23.00
100 Bulbs each of the above 10 varieties,	1000 Bulbs	45.00

Terms: **30 days after shipment or 5% discount if Cash accompanies order**

Our Advance Bulb Catalog—Issued May 1st
Write for a Copy

Stumpp & Walter Co

One of the Largest Importers of Dutch, French and Japanese Bulbs for Discriminating Flower Lovers in the United States.

30-32 Barclay Street, New York

Branch Stores in Newark, N. J., White Plains, N. Y., Baltimore, Md. G.

Quick Death

To cutworms, snails, slugs, earwigs, sowbugs, grasshoppers.

New, scientific method stops garden damage. Water doesn't harm it and it doesn't harm the plants.

PROTECT your garden now from cutworms, snails, slugs, earwigs, sowbugs, and grasshoppers. These pests, authorities say, annually destroy millions of dollars worth of plants, vegetation and property. They are most unsightly, too.

Unless you know of their presence you may wonder why your garden fails to grow.

Don't blame your seed dealer for this. Use Snarol instead. This is a scientific, ready-prepared meal that you simply broadcast on the ground about the plants, flowers and shrubs. The pests eat this meal and are quickly destroyed.

Unlike old-time methods, Snarol is non-injurious to plants and shrubs when used according to simple directions. It is merely a food which attracts and destroys only the pests that eat it. Also, Snarol is not harmed by water—in fact, it works best when *damp*—a feature that commends its wide use where rain and sprinkling cause wet garden conditions.

Thousands of home owners, institutions and truck gardeners say that Snarol is the most effective method they know. They use it not only to stop garden damage but to destroy these unsightly pests as well.

For sale at seed stores, hardware dealers and many leading drug stores in convenient sized packages. Sizes—1 lb. and 3 lb. packages.—15 lb. bags.

Act today or write for free 24-page booklet on Pest Control and name of your dealer.

STOP ANTS

Antrol, a companion product to Snarol, destroys Argentine and other sweet eating ants. These ants infest homes and also spread aphis, scale and mealy bug on the plants and trees of your garden. *Not a paste or powder* but a complete system of tiny glass jars which you fill with Antrol syrup. These jars then stand "on guard" like sentinels. This new method destroys the entire ant colony, gives permanent protection and is *safe* to use around children or pets. Ask your dealer or write us for details.

Use Antrol

Snarol

The National Garden Pest Control

Manufactured by the
Antrol Laboratories, Inc.
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Antrol Laboratories, Inc., Dept. 25
651 Imperial St., Los Angeles, Calif.

Gentlemen: Please send me your 24-page booklet on "Pest Control," together with the name of a dealer in this city who handles your products.

Name.....
Street.....
City.....*State*.....
I am interested especially in ☐Antrol ☐Snarol

Your Garden in the South

Continued from page 306

and, in any event, they stand a greater chance of being eaten by ants or rotting, if left in the ground. Do not make the mistake of lifting the bulbs before the tops have turned yellow.

Gladiolus and Dahlia

There is time yet for one more planting of Gladiolus bulbs, and about the end of the month Dahlia tubers can be put in. Use a sandy bed for Dahlias, and do not water too often. If they go to leaf too much, cut them back about the middle of the summer, and let them head up again by September. Another way of treating Dahlias here where the soil is rich in clay and there is an excess of rainfall during the summer, is to let the plant reach six feet or more, then when the ground around the roots is thoroughly wet, bend the plant over, even to the point of up-rooting it, and cover the stem the entire length with earth. New plants will spring up at each joint and will bloom when about four feet high. This is also the proper way to treat Klondyke Cosmos.

Perennials

In order to have perennials blooming next spring, plant them now in beds that can be protected from the noonday sun. This is best done by having slats or laths over the bed, but can be done under a tree, if the bed is watched and not allowed to dry out too much. The tree is apt to get most of the moisture. The winter is seldom cold enough to damage Campanulas, Foxgloves, Hollyhocks, Columbines, Delphiniums, Stocks, Wallflowers and Perennial Phlox, but they frequently burn up in the summer or are eaten by bugs.

Roses and Shrubs

The shrubs that bloomed early in the spring can stand trimming out a little now, but this should be done with care. Oleanders, Spirea, Deutzia, and some others can have the old hard-wood canes cut out so the new canes can have more room. Never *top* these plants that bloom at the terminals. Climbing Roses should be treated the same way, but the bush Roses can stand some trimming this month when it is dry and they are not making much growth. They should be fertilized now, too, so they will bloom again during June and July. Buddleia can be topped after each spell of blooming, but must be fertilized and given plenty of water at all times. Hibiscus can be still be put out, if care is taken to shade them for a day or so after putting them in the ground.

Planting Vines

Many annual vines can be plant
May. Among these are Maura
Cypress, Balloon Vine, Jack-
Moonvine, Thunbergia, Morning-g
and Hops. Vines cover so many
sightly places such as the side
garage, an old stump, the tall
trunk of a palm, that gardeners s
use them oftener.

Pools and Rockeries

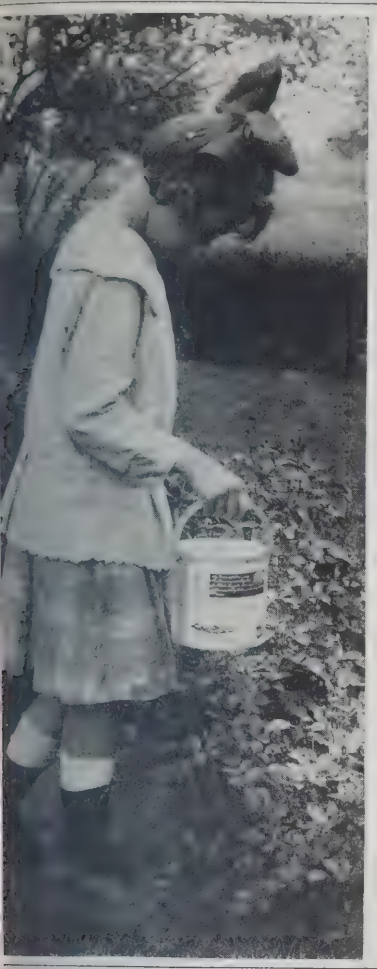
A pool, even a tiny one made
tub or half-barrel, adds a note of in
to every garden, and May is the
to start one. Be sure to get it
enough to grow Water-lilies and to
gold fish. Nymphea zanzibariensi
N. odorata (our native white W
lily) are the best day-bloomers.
N. devoniensis and N. rubra rose
ones most recommended for
blooming here. All of these requ
pool with at least one foot of so
one foot of water, and as there are
varieties that require more soil
that, it is well to make the pool a
three feet deep at one end. Arour
pool there can be a morass for sw
plants like our native Iris, Arrow
Butterfly Lily, Cat-tails and R
Ferns and Mosses, with stones
conveniently for stepping throug
marsh. Or the pool can be surro
by a rockery on which plants like
Aloes, Bear-grass, Sansevieria Zeyl
Sedums and other semi-desert
will grow. If a fountain accom
the pool, the rockery may have
and Mosses, wild Violets and
woods plants.

Spraying the Orchard Fruit

May is the last chance to spr
peaches and grapes before they
and as scale attacks and destroys
trees very quickly, oil-emulsion
with arsenate of lead and n
sulphate should be used throughc
orchard. Oil-emulsion will get rid
scale, arsenate of lead will kill the
pillars that attack the grapes, an
tine sulphate will keep down th
lice.

Table Vegetables

A second crop of Corn may be
and Melons, Squash, Okra, Cucu
Pumpkins and Beans. As the
come, Sweet Potato slips can
out for a late crop, but if it dc
rain the slips must be watered. S
are ready to gather and store in
dry place, if the tops have turned



The Same *"Old Reliable"*

Somewhere around a million pounds is the amount of the *Old Reliable Slug Shot* which the giant Mixer turns out year after year. For nearly half a century Slug Shot has served millions of planters in garden and field. It has saved the nation millions in combating Potato bugs, Currant worms and other leafchewing insects. Now applied by the third generation this "Gold Medal" remedy serves as efficiently today as it did when first put out in 1880.

HAMMOND'S SLUG-SHOT 1880 1915 USED SINCE 1880 AN INSECTICIDE FOR GARDEN USE. TRADE MARK

Hammond's *Gold Medal* Insecticides
Are *Recognized* Standards for Specific Purposes

All are compounded for combating specific ills of plant life. Every Hammond remedy is backed by *years* of thorough tests and experiments. For this reason Hammond's Gold Medal Insecticides are heartily endorsed by the foremost seedsmen of America, who sell them.

Copper Solution is an ideal remedy for Blight, Mildew, Rust and other fungus diseases that spread by spores. Its frequent use will encourage the health habit among your plants.

Hammond's Grape Dust is a specific mildew remedy. Equally effective as a spray or applied in powder form, it will counteract mildew on grape vines as well as on Phlox and Delphiniums.

Thrip Juice is a most powerful contact poison useful to eliminate soft-bodied insects such as Aphis or Plant Lice, Red Spider, etc. Best by test for over 40 years.

Buy in Quantity

Ask your dealer or write us for your copy of "Insects and Blights" offered above.

Hammond's Gold Medal Remedies are sold at most Reliable Seed Stores

"Insects and Blights" is ready to extend helpful advice to home gardeners —as it has been doing during the past 41 years. It is ready to call on you, on request. Free, of course, and please mention G. & H. B.

HAMMOND'S COPPER SOLUTION 1889 1889 STEALTHY AND DEADLY. A USEFUL FUNGICIDE TRADE MARK

Hammond's Paint and Slug Shot Works
BEACON NEW YORK

PACHYSANDRA
hrives in Deepest Shade

PACHYSANDRA, the marvelous ground cover grows luxuriantly even in shadiest places. It quickly and permanently covers unsightly bare spots with a deep, rich carpet of brilliant evergreen growth.

PACHYSANDRA thrives in any soil, and is of wonderful benefit to the health of old trees by restoring natural forest soil conditions.

Through specialized growing I can supply PACHYSANDRA plants at very economical prices, in large or small quantities.

Write for information

HUGH B. BARCLAY, *Plant Specialist*
20 Montgomery Ave. Narberth, Pa.

Hitchings Greenhouses

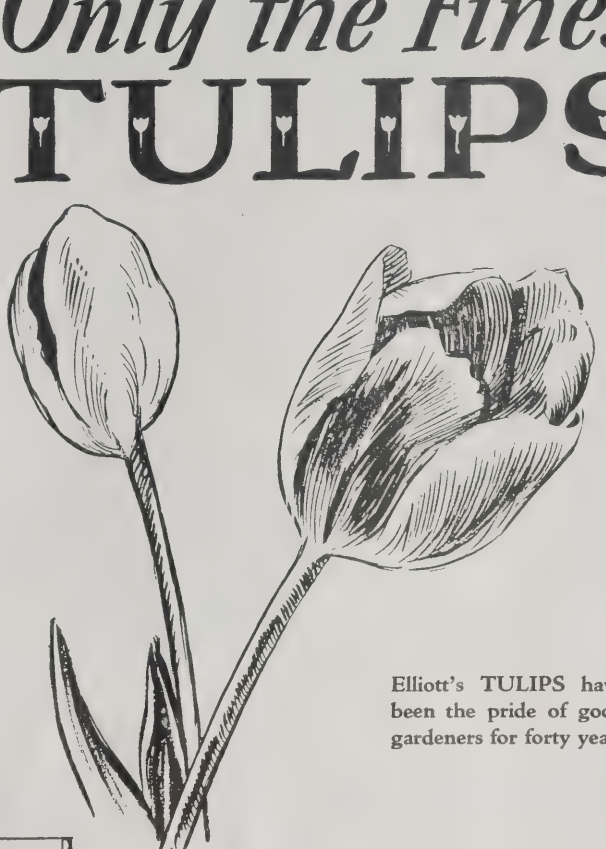
"I know you'll like that honey hearted melon, Miss. It's from the master's own greenhouse. Thank you, Miss."

If your guest's impressed with the melon, think how she'll be impressed with the idea. Melons from one's OWN greenhouse.

There's a bit of printing just published called "Help Hints on Owning Your Own" which we will gladly send you.

Hitchings & Company
ELIZABETH, N. J.

Plant Only the Finest TULIPS



Elliott's TULIPS have been the pride of good gardeners for forty years

THE SAME soil and the same reasonable care that will give you ordinary flowers from ordinary bulbs, will give you superb and gorgeous flowers from Elliott bulbs. Why devote time and space to any but the finest?

Giant May flowering Darwin and Breeder varieties, the choicest grown in Holland, and every individual bulb chosen for size and perfect development. This is what we assure to our customers who place their orders early—before our annual lists are made up and our selections made.

Order Before July 1st

Ten truly regal Tulips, two feet tall, blossoms often 3½ inches across. Sure to grow, true to type, lovely beyond description.

Clara Butt, Delicate Salmon-Pink
Euterpe, Mauve-Lavender. Extra fine
Farncombe Sanders, Fiery scarlet
Pride of Haarlem, Deep old rose
Madame Krelage, Pink, light bordered
Baronne de la Tonnaye, Vivid pink
Bronze Queen, Buff & golden bronze
Dream, Lovely delicate lilac
Faust, Velvety maroon purple
Glow, Deep glowing Vermilion

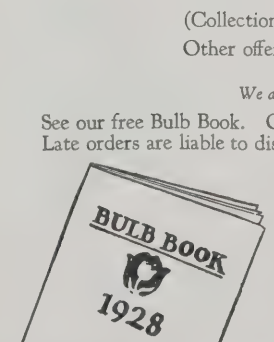
100 Bulbs : $3.95 Carriage Prepaid

(Collection A—10 each kind)

Other offers: (Collection B) 250 bulbs, $9
(Collection C) 1,000 bulbs $35

We allow 5% discount for cash with order

See our free Bulb Book. Order Now. Pay in the Fall when Bulbs arrive. Late orders are liable to disappointment.



Bulb Book FREE

The Bulb Book of the year. Interesting, complete, helpful. Many suggestions for growing Tulips, Hyacinths, and other bulbs, indoors or out. Rich and lovely illustrations, many in natural colors. Send for it today. Get your bulb orders in on time.

Elliott Nursery Co.
703 Magee Building - Pittsburgh, Pa.

More Hands for the Housewife

Continued from page 271

clothes clean. The choice therefore may be made on a basis of personal preference rather than on comparative performance. Some housewives like one type best, and others another. Buy whichever most appeals to you and you will be quite safe so long as you take care to pick a manufacturer of known reputation.

Where space is extremely limited, a small but competent washer has been specially designed for installation in a set tub. In such cases an ordinary electric iron and a portable ironing board or one hinged to the wall may be substituted for the ironing machine. One of the newest irons, by the way, is equipped with a useful attachment for steaming velvet and other materials which cannot be pressed without injury.

If the kitchen is floored with waxed linoleum, its care will be greatly facilitated by the purchase of an electric floor machine of some description. The lowest in price is a compact little mechanism that runs lightly over the floor and imparts a satiny polish to wax previously applied by hand with a lamb's wool pad attached to a long handle. Next in point of cost is a larger and heavier machine which both waxes and polishes; and the trio is completed by a most capable affair which scrapes and scrubs the floor, then applies and polishes a new coat of wax. Of course all of these machines are equally useful on waxed floors of wood or composition, in any part of the house.

Before closing the kitchen door behind us, the question of ventilation must not be overlooked. The most practical method yet devised is to install, in the upper part of one of the window frames, a steel frame supporting a reversible fan which at the turn of a switch will either draw fresh air into the room from outside, or eject the heated air together with cooking odors and greasy or smoky fumes. The use of this device not only adds immeasurably to the comfort of the workers in the kitchen but helps to keep the walls cle fresh by preventing grimy deposi the atmosphere.

Portable electric fans are no as much a standard feature of ho equipment for hot weather as electric heater for early fall a spring, or for all-year use in th room, where it takes the place steam radiator, and may be perma installed in a tiled alcove in the one chooses. The vacuum cle another of the accepted nec which needs only a passing ref but many will be glad to learn o convenience in the form of a handle, similar to that on a f which is provided by one make snapped on in place of the reg long handle. This exchange m easy to pick up the cleaner and it to closet shelves, bureau d heavy clothing, and all sorts places in which the use of the long proves awkward. The same m cleaner has a blower attachm cleaning bookshelves, radio outf interiors of pianos, and radiator

A generous provision of conv outlets means much in the way o comfort. Electric warming pad boon on zero nights or in case of s A small electric stove or an im heater makes it possible to wa baby's milk or the invalid's grue middle of the night without goin stairs. And, of course, the radio electrically operated phonograp feature of every well regulated

In closing this discussion concerning the selection of e equipment may not be amiss. it has no complicated parts to of order, and no exposed gears t accidents. Make sure that its is exactly suited to your needs. the first cost but also the operat of a machine larger than n means a waste of money, while is too small will prove a perpet and annoyance.

Tulips Best for Everybody's Garden

Continued from page 260

MADAME KRELAGE, (2) bright lilac rose margined pale silvery rose . 28
EUTERPE, (2) silvery mauve lilac edged paler lilac, white base . 29
DUCHESS OF HOHENBURG, (2) pale slaty lilac mauve striped rosy heliotrope; white base 29

Pink & Rose

AFTERGLOW, (4) deep rosy orange shaded salmon at edges; inside orange with yellow base . . . 30
CLARA BUTT, (3) clear pink flushed salmon rose with blue base, white halo 22
BARONNE DE LA TONNAYE, (3) bright rose margined blush rose . 30
PRINCESS ELIZABETH, (2) clear deep pink, changing with age into rose pink, white base . . . 28
LOUISE DE LA VALLIERE, (3) bright cherry rose, with blue base starred white; beautiful . . . 25

Blue

BLEU AIMABLE, (3) pale lavender, shaded steel blue with white base starred blue 26
LA TRISTESSE, (3) deep slaty blue with white base, very distinct color 26
JUBILEE, (3) bright blue purple with white base marked blue; large flower 31

Black

LA TULIPE NOIRE, (3) very d maroon-black; blackest of Tulips . . . . . .
ZULU, (2) rich velvety pur black, pointed petals, egg-sha flower . . . . .

Maroon & Purple

MRS. POTTER PALMER, (3) br purplish violet, white b large flower . . . .
FAUST, (2) dark satiny pu white base; enormous flo fine form . . . .
PHILIPPE DE COMMINES, (2) vety maroon black; large fl on long stem . . . .
THE BISHOP, (2) deep violet, blue base, white halo; very enormous . . . . .

White

LA CANDEUR, (2) opening ti pale rose, almost pure w black anthers . . . .
WHITE QUEEN, (1) opening rose quickly turns white, quisite . . . . .
PAINTED LADY, (3) creamy tinged soft heliotrope open; purplish stem . .
SILVERWING, (1) magnificent; white Darwin . . . .

Let the Personality of this Rug enrich your living room

IN the furnishing of your home, the choice of the rug is all-important. It forms the *background* of the picture you are creating—using rugs, furniture, draperies, as the artist uses pigments.

And just as the artist realizes that the background frequently "makes" his picture, so also does the Bigelow-Hartford Carpet Company create rugs and carpets that will enable you to enhance the charm of your home.

Their colors have an affinity for today's most sought-after decorative effects. Their designs, whether from the nomadic rug-weaving tribes of the Near and Middle East or from the unknown masters whose skill flowered under Shah or Sultan, are always authentic, always in good taste.

Yet their cost is moderate. Their range of prices, in the different types of carpets and rugs offered, brings them always within convenient reach, whether you are furnishing your living room or planning appropriate decoration for some of the lesser rooms of your home.

Bigelow-Hartford Rugs and Carpets are on sale by progressive dealers everywhere. If you are in doubt as to where you may see them, write, and we shall gladly give you the name of a nearby merchant...one who, if requested, can give reliable advice on decoration.

For further counsel, send 25 cents for "Color and Design—Their Use in Home Decoration", a booklet illustrated in colors and published by Bigelow-Hartford Carpet Company, 385 Madison Avenue, New York.

Illustrations show "Hartford-Saxony" Pattern 2193-63

BIGELOW-HARTFORD
RUGS & CARPETS

In creating this cozy and comfortable interior, Mrs. Brown, decorator, began her scheme with a Jaspé floor in two-toned taupe. This floor is built right in over an old wood floor. It is warm, springy, long-lasting. And easy to clean, too, because of its smooth, dirt-resisting Accolac finish.

FLOORS . . *as well as furnishings, can now be* Pleasingly Original

New opportunities offered by Armstrong Floors to express your own good taste

EVEN those who prefer a one-color floor need no longer be limited to the drab browns and yellows of yesterday.

For now character and color . . . the twin charms of well-appointed homes . . . have been superbly expressed in Armstrong's Jaspé Linoleum Floors.

One of the newest color effects, taupe Jaspé, is shown in the bedroom above. If you like soft pinks, rich blues, and warm yellows, this floor will blend in perfect harmony with your color ensemble.

And it is original! The mellow colors merge to delight the eye, to create a subtle striated effect. This effect is one of warmth and comfort, too—two virtues you will find actually present as you walk on your new Armstrong's Jaspé Linoleum Floor.

Your good taste, however, may dictate green, blue, brown, or gray for your floors. All these colors you can have in two-toned Jaspé. Should you desire the relief of pattern, there is Inset Jaspé—a new idea—for you.

Still, your imagination may picture an Old World, hand-set floor for your home. Like your dreams come true are the new (or should we say, age-old?) designs in Embossed Handcraft Inlaid—floors with a natural texture you can see and feel.

Right—*Embossed Inlaid Linoleum in tapestry effect, Design No. 3055*

Left—*Inset Jaspé No. J12. Both these designs have the new easy-to-clean finish of Accolac.*

These are but a few of the scores of n Armstrong Floor designs now showing. you want your floors to be pleasingly ori nal, view the new patterns and colors n time you are shopping.

Prices are reasonable—ev though Armstrong Floors now co to you with the new satin-smooth, d resisting lacquer finish of Accol

Ideas For Your Home Beautiful. Hazel Dell Brown's new book—"Attractive Home—How to Plan Decoration"—brings you new thoug new ideas, that you can easily and nomically carry out in your own ho Illustrated in color. Contains "Decorat Data Sheet" and offer of the author's free service. Sent on receipt of 10c. (Canada, 20c.) Address Armstrong Cork Company, Linoleum Division, 905 Pine Street, Lancaster, Pa.

Look for CIRCLE *trade-mark on the burla*

Armstrong's Linoleum Floors
for every room in the house

PLAIN · · INLAID · · EMBOSSED · · JASPÉ · · ARABESQ · · PRINTED

Now you can have gardens like these . . .

These pictures show what plenty of water does for the home garden

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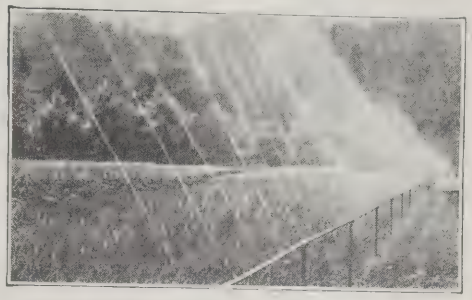

Skinner Systems are used to-day on such estates as those of Rockefeller, Ford, Mellon, McCormick, etc. Yet they are no less effective on the lawns of less pretentious homes. Even the owner of a small back yard, by investing only a trifling sum, can enjoy Skinner Irrigation.

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HEARTHSTONE EDITOR'S CHAT

This department is for every one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. Its purpose is to bring to each homemaker all the aid and advice so freely offered by the business world to-day. Booklets (see next page) may be had upon request. Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

Bright and Cheerful Kitchens

IN NO other room in the house has there been such a radical change for the better as in the kitchen. There has been much written and said about 'color in the kitchen' but no one can conceive of just all that this may mean in the way of beauty to even the smallest, darkest little kitchen until she begins to prowl through the large stores in search of the old familiar objects and finds them in their new dress. Then the change bursts upon her consciousness. Do we need a new range to replace our old one? Here it is in shining white with colorful motifs—or in soft grays and blues! Who wouldn't like to cook on such a stove, and lives there the maid with soul so dead who would not enjoy keeping it spotless?

Sinks, too, have passed out of the china-white class into gaily colored kitchen accessories, and these with modern draining boards and all sorts of conveniences, There is even a tile sink that is very beautiful and which tempts one into the kitchen to work.

Kitchen Booklets

Ask for booklets by number only

THE DINOFOLD TABLE
Nichols & Cox Lumber Company, Inc. 403

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Standard Gas Equipment Corp. 184

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Wasmuth-Endicott Co. 87

FEWER STEPS IN YOUR KITCHEN
The Hoosier Mfg. Co. 100

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Electric Household Utilities Corp. 93

KITCHEN AND PANTRY EQUIPMENT
Coppes Bros. & Zook 382

HOW TO KEEP YOUR HOUSE YOUNG
Valentine & Co. 401

WALL COVERING (SANITAS)
Standard Textile Products Co. 78

WATERPROOF DRAPERIES
Protexwell Corp.

The kitchen clocks of yesteryear—where are they? Gone into that limbo where the modern housewife is burying so much of dullness; and we have instead on the kitchen shelf the old time alarm clock in gay dress. If, however, we want our clock to hang on the wall we can still have it in color, sunk perhaps in the center of a china plate that suggests the charm of old Staffordshire ware.

And where once the ice man stalked through the kitchen or back entry leaving a trail behind him, now stands the iceless refrigerator that has sent him away for all time and even the refrigerator has lost its chilly look due to the colors in which it now appears.

There is no kitchen complete to-day without some kind of a breakfast nook whether it is built in as part of an alcove, or one that slides up against the wall like a door or slips down into the wall between the studding. There is every kind to fit every kitchen and these, like all of the kitchen fittings, may be had in color,—gay, all-over colors that bring green and orange and red to brighten the kitchens where they are. Or they may be had in neutral tones with colored lines and flowers on th Still others come undecorated—like the kitchen tables and cha ready for the can of lacquer and brush in the hands of the hou wife. These little cans of lacquer have as a matter of fact bee vital factor in coloring up the kitchen making of it a cheery place in which to w —a matter of high importance, by the w We cannot, most of us, wave a pocketb like a fairy wand and by its means cast all the old furniture and fittings and new ones to meet our new ideas of what home workshop should look like! The m of us have to use what we have and tr form it if we can. And lo! by means of can of lacquer it is done! The veriest a teur can lacquer her chairs and tables cabinets! There is no mystical rite or se process—it is as simple as one could w One merely follows the directions on the and there is the new table or other fit blossoming out before one's eyes.

Where, however, the housekeeper *is* furnishing her kitchen or planning a new one, she will kitchen tables and chairs, kitchen cabinets, dish and br closets, waiting for her in just the gay tones she desires. If wants her furniture less noticeable, depending on curtains walls for the very bright notes—she will find that her e color want has been anticipated in durable practical fash For the walls there is the old stand-by, a washable wall-cl either plain or figured. Paints are washable, too—not the s paints of other days but the soft dull tones which, while w able, suggest textured walls. For curtains there are rubber fabrics, waterproof, gay in color and pretty.

And, last but far from least in brightening up the kitche the new enameled ware in every color of the rainbow! Who w not like to prepare a salad in a cream-colored bowl with ed pale green! Or make jam in a gorgeous red pot, the jam st with a yellow spoon! Red, blue, yellow, green, no matter what you want in your kitchen, you can have it—for floors in li um, for walls and ceiling in waterproof cloth or paint, with ta chairs, cabinets, sink or range in any wanted hue so tha kitchen may be (as it should be) the gayest workshop in the

Yours - all the Charm of an Old World Garden

This spring you can transform your yard into a secluded haven of loveliness, at surprisingly small cost, with Dubois

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Here is a fence that gives the family who own even a 50 x 100 plot a chance to develop it as they never thought possible. With Dubois up, they will find themselves possessed of a feeling of privacy and satisfaction that couldn't be pleasanter if they owned a large country estate.

Dubois Meets the New Vogue

Consider, too, the rapidly growing custom over here of dining or serving tea in one's garden, just as they do in England or on the Continent.

No other fence fosters this tendency as well as Dubois. It gives the essential seclusion immediately, in contrast with a slow-growing hedge, and at very moderate cost, especially in comparison with a stone or brick wall.

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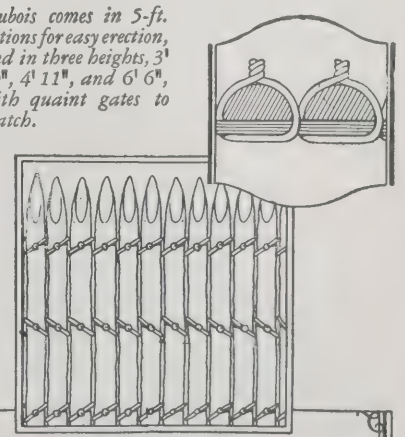

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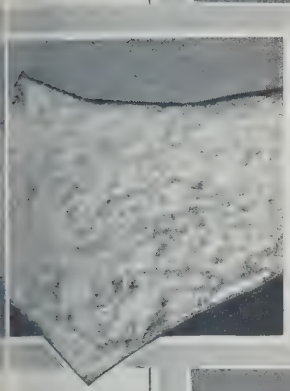

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Chinese Chair, showing the bamboo construction of an original Chinese chair, which gave Chippendale the suggestions for one of his designs (see below)

In the Workshop of Chippendale

Continued from page 274

was on. The earliest date at which we have any definite record of its use is 1718, Dr. Lyon having found a mahogany article mentioned in a catalogue of an American auctioneer of that year. It is a matter of tradition, however, that a chair was made of this wood for William III. Thus a new period in furniture-making opens with the use of a new wood discovered by accident and re-discovered by chance. There's romance for you!

But, as we have already noted, there are hints of tragedy here. We owe the introduction of this wood into England to a man sadly ill-fated, who, after a life spent in basking in the sunlight as a favorite of royalty, was destined to pass within the heavy shadows of the scaffold because of the whims of an English Queen. And there is further tragedy here; mahogany has cost the lives of a multitude of workers in the tropics. It has been found at its best only far from civilization, and it has been brought from its hiding-places at a cost of struggle, suffering, and death. Sweating, trudging, bitten by voracious insects, attacked by vicious beasts, sucked to death in the ooze of tropical swamps, burning with the fevers of the jungle, the seeker after mahogany has endured these miseries and met death that his fellows might catch the glow of the sunset and the wonder of the morning sky in the amazing markings of this golden wood. The glory of the mahogany

period, which still abides and b
to always abide, has a backgr
pain and disease and death, bu
unique beauty of this lovely
due the wonders of the golden p
English furniture. So the slu
East with its gift of myth and
symbolism from China, and the
slumbrous South with its gift of
that flushes a whole covey of ra
have combined to make this
great indeed.

But no study of these years w
complete without at least a glan
man who has given his name t
as constituting a period in art
vance. Here, too, in this life-stu
are curious elements. Perhaps t
of Thomas Chippendale is mor
associated with the claw-and-b
than with any other piece of f
yet in his great book of desi
Gentleman's and Cabinet Maker
tor, there is not a single illust
that form of foot, in any of t
editions. The nearest referenc
claw motif in this monumental
a design of a lion's paw resti
sphere, but even here there is
slightest hint of the vastly mor
design we are considering.

Then, too, that book of desi
sents illustration after illustrati
most delicately and beautifull
chairs and tables; and yet Thon
pendale professed it to be the
of his life to (*continued on p*

*Chinese style
note the imit
wood of the
bamboo. Bec
effect is deci
zarre probably
for the fact
style is comp
rare*

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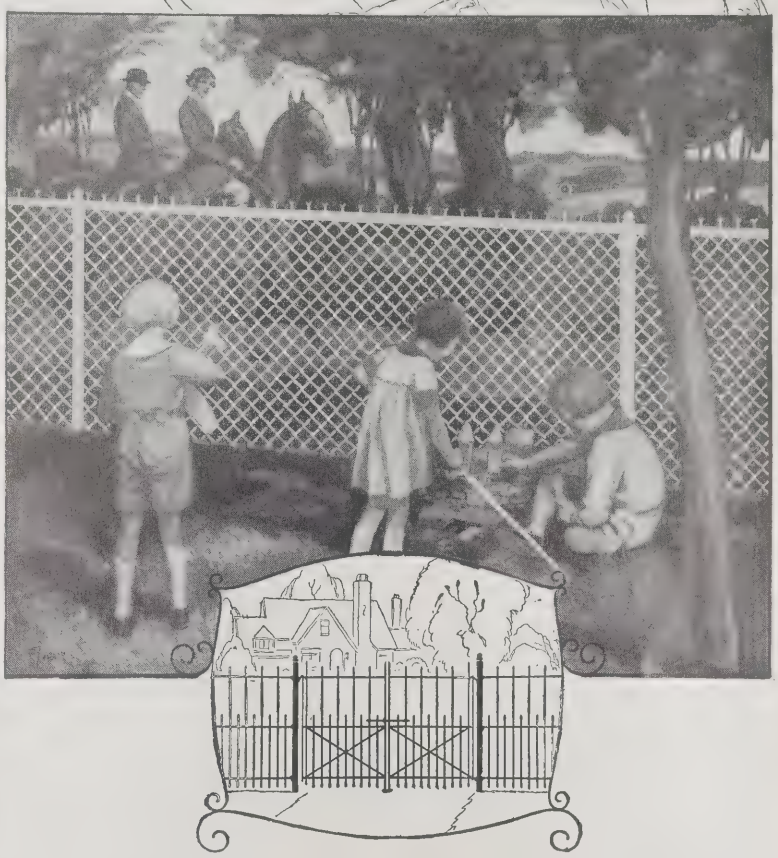

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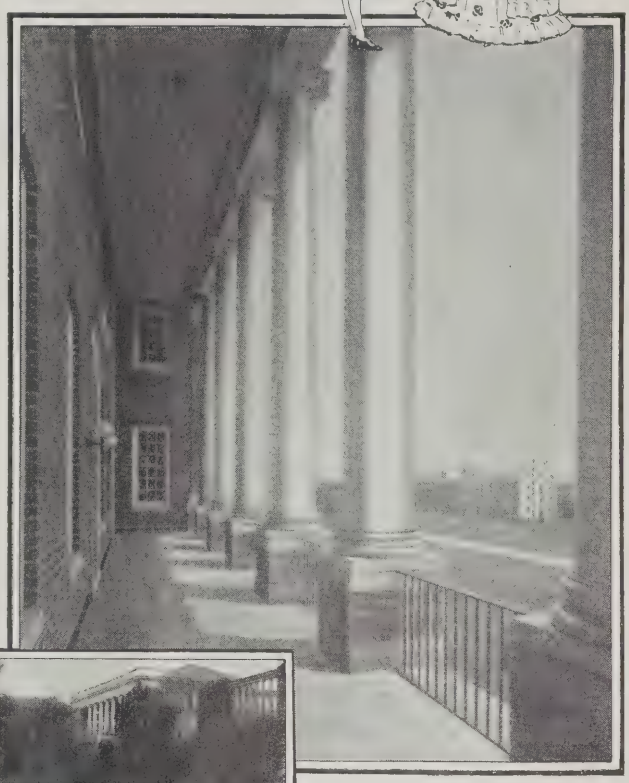

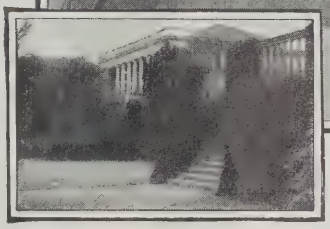

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In the Workshop of Chippendale

Continued from page 318

improve the public taste, and in the pursuit of that ambition to make furniture not first of all for the wealthy and artistic, but more particularly for every-day folk. As his introduction to the *Director* puts it, 'The work is intended for all classes, calculated to improve and refine the taste, and suited to the fancy and circumstance of persons in all degrees of life.' So his subscribers ranged from the Duke of Northumberland to William Frank, the bricklayer. Most of the former designers worked only for the noble and rich. The poorer classes of Chippendale's time were so abjectly poverty-stricken that they could not buy even simply beautiful chairs. But there is no question that Chippendale's ambition was to win a market from the man of the street.

It is interestingly parallel with this undoubted interest in the every-day man that Chippendale brought cabinet-making into the full glow of publicity, and made it a profession. Until his time the cabinet-maker was downtrodden, and apparently no one thought for a moment that a wood-worker could be an artist. Who knows, for example, the names of any designer of the beautiful productions of the Queen Anne period? And more than this, the workman had been superintended in his wood-working by masters who were autocrats and bullies; who even flogged their men and sent them to jail for petty offenses. Chippendale's democratic sentiments, which prompted him to design his chairs for the plain people, and which recognized the artist in the worker in wood, led him also to sympathize with working people of his own trade, and secured for him a model workshop of contented employees.

But there is another touch of romance in this life-story: Chippendale originated nothing. He was a great borrower. He borrowed suggestions from many sources and adapted them to his purpose. Horace Walpole, collector and antiquarian, and author of the famous *Letters* had furthered the Gothic revival in England by building his house at Strawberry Hill in the Gothic style. At once the Gothic became a fad, and Chippendale adapted that style to his chairs.

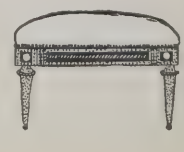
England's trade with the Orient had expanded, and Chinese styles began to show themselves in various circles of English life, as earlier Chinese material and methods of construction had made their impression on English cabinet-making. So Chippendale built many a chair in the Chinese style. In the first edition of his book he wrote of some of his chairs as being 'in the present Chinese manner, which I hope will improve that taste or manner of work; it having yet never arrived to any perfection; doubtless it might be lost without feeling its beauty.' And later, in his third edition of the *Director* he describes the Chinese chairs as 'very proper for a lady's dressing-room; especially if it is hung with India paper,' evidently confused in his geography and identifying China with India.

The French people had brou influence to bear upon English for many decades, but the re of the Edict of Nantes in 1695 in the emigration to England o workmen, highly trained in wo ing. Consequently Chippend rowed from the French. The infl the rococo, the gaily ornament of their French neighbors ac Channel, is plainly reflected in orate, perhaps over-elaborate, of the highly ornamented Chi furniture that reaches its mo plicated and intricate forms ribbon-back chairs.

Having thus duly emphasi debt to foreign designers, we all fairness add that Chippenda ishingly developed the orn splat. The development in the u splat is distinct enough; the the Cromwellian chair was s Jacobean chair showed a panel the Queen Anne chair showed shaped panel or splat that was and unornamented. The next naturally was the ornamenta the splat. This ornamentation ready begun before this time, Chippendale made his deepest sion upon the art of cabinet- The earliest ornamentation wa *edge* of the splat. The next mo cut into the splat itself. Chi combined the two methods of tation, and through the wizard work the possibilities of dazzlir in chair-carving became evide tic chair-making reached its him.

But our story of this master- ends on a note of sadness. Chi never knew that fame was t Perhaps he did not care. Con his superiority over his fellows calm and cool self-assurance, p did not miss the immediate re of his talents. Since he is famous cabinet-maker of all t strange that there is no trace the chronicles of his period. member of the Society of catered also to the wealthy fluential, and professionally a with them, and yet even Hor pole, a fellow-member of h Society, and withal an invetera never mentions his name.

But what does it matter aft he was not to know of the wid tion that was to be his? The t student of the art of the 18t not only may find to-day in th panels of Chippendale chairs, of his name, now so well kn also may in imagination trace itself in the graceful bow-kn mahogany ribbons woven so his artistic fingers. We ma sum up his biography in his o 'I can convince all noblemen, g or others, who will honor me commands, that every desig book can be improved, both beauty and enrichment in the of it, by their most obedien Thomas Chippendale.'



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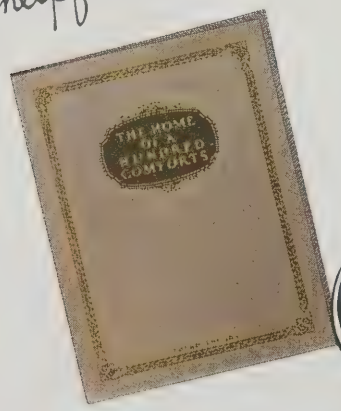

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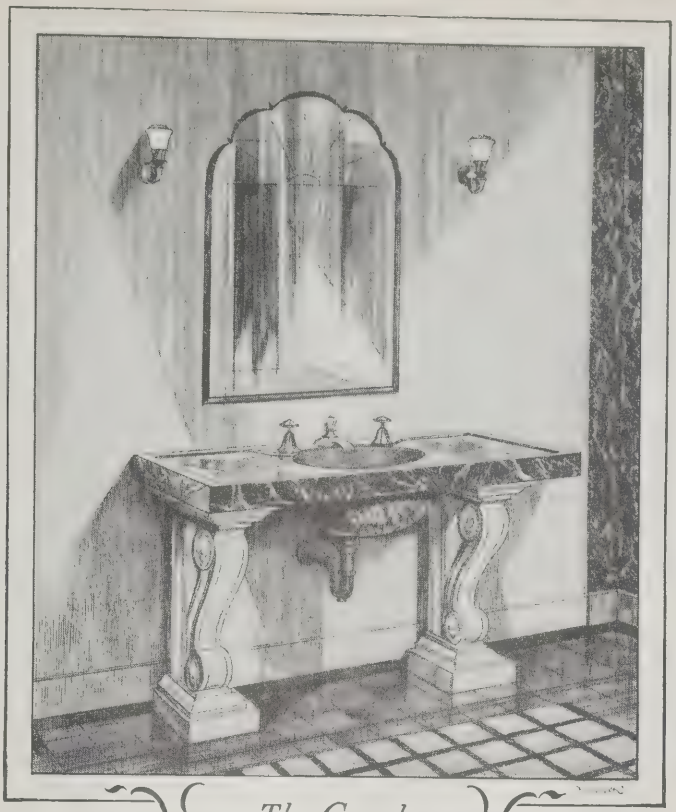

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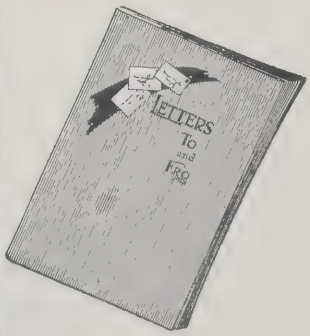

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Furniture that Reflects the Spring

Continued on page 262

One naturally looks to the wallpaper colors for a cue in this instance, as they are setting the entire color scheme of the room. The maple tones of the furniture have echoed the red and yellow of the paper and in turn have been echoed themselves, and deepened, in the red of the chintz with its orange and yellow accents. The yellow wallpaper notes have also been echoed in the curtains. Should the desk be yellow, red, green, or cream—like the background of the paper? Yellow? Possibly; but not first choice. Red? No; the desk would appear much too boisterous against the delicate paper and vastly overbalance the bed in the far corner. It would also make red, and yellow-red, come too close together in the desk, curtains and big chair. Cream? No; too light and wholly out of key with the weight of the rest of the furnishings and their strength of tone. It would be washed out and ridiculous. Green? Probably the best choice, particularly if the hooked rugs show this color or if the all-over big rug were in green, as it might well be. Then the little stand between the chairs, the little table and even the mirror over the dresser might well repeat the yellow accent and be painted in a nice mellow tone—not too bright. The chair in front of the desk would probably follow the desk color with perhaps some suggestion of yellow in banding or stencilling.

These are but incidental pieces of furniture, but how they do vary the monotony of the brown and yellow in such a room! And their colors will never be obtrusive. One might turn this plan about, and, keeping wallpaper, curtains, chintz covered chairs and bed the same, vary the color of dresser and rush bottom armchair. Still the room would not be all paint. And this is an opportunity which often comes to us.

In the second plan which we have in mind, we must take special care, for it is a great temptation to use too many paint colors once we get started. And the result is most unfortunate if it makes the room appear a bit of a hodgepodge. Let us plan this new arrangement with great circumspection. We shall find that the beautiful effect of the room will not depend upon multitudinous colors nor even upon the constant repetition of one color. It will depend upon the judicial combination of a few tones which are balanced often by contrast.

For example, one cannot, safely, paint the desk green, the chair in front of it red, the two tables yellow and the chest of drawers and slat back chair green—even although all of the colors harmonize perfectly. The pieces of furniture would act like a series of saw teeth, popping in and out at you. Neither would it be particularly interesting to do them all in green. There would be a tendency to over-accentuation and solidity. In the small space, a more judicious breaking up of the tones would be most acceptable. Let the desk stay green. The chest in green would keep things simple and well balanced. The soft yellow of the little sewing cabinet is unobtrusive and allows that article to slip back into the background with the curtains. The rush bottom chair may easily be in the same color; it, too, would slip back, and the little tripod table may be the bright red note making vivid contrast against the more somber green of the neighboring desk, but slipping easily into the big chair group. The yellow ba upon desk chair may be repeat chest and armchair and the n go into yellow with green decor Now there is balance in the room. would be a pleasant bit of contrast by reversing the yellow and green c ations and keeping the chest grou too heavy for the maple bed. The bit of red would simply be a accent taking place like its corres ing accent in the wallpaper.

In our third plan let us have a furniture painted. The bed prese solid plain surface at headboard footboard. A brilliant color or a color would make these surfaces out in the room and take up a grea of space. Cream, like the color c wallpaper background might be and a pretty room be the result just to have the problem more di and the effect more interesting, plan a more definite color tone. C the prettiest effects imaginable m obtained by using a light, soft gre delicate jade. Dresser, desk, desk they are all in the same color for we take care that the room retains a f of unity. As it is a very small there must be some color which peated enough times to give consis Larger rooms allow much greater va they demand it.

In this case, the greens are we tributed about the room to estab balance. A similar balanced feelir be obtained by covering bed and chair with the same chintz. As the is fairly light, we are at liberty to totally different sort of effect th dark toned one of the first and plans. Suppose we settled upon chintz with green background a cinating sprigs of red, blue and flowers. This keeps the element o ness and gives sufficient variety added interest. It would be ver to have either red or yellow dec in stencilling and bandings up green furniture.

The wooden armchair and cabinet could be red, but the would be a little bizarre. They be much lovelier in the mellow possibly with red in fine tracer the slats of the chair and in the tion of the little cabinet. The bri would be much more interestin the low table and the night stan

We hope, of course, in this la that the floor is going to be eithe deepest of walnut browns, with tan, black and red hooked rug deep green with similarly color If an all-over rug is used, a coml in two tones of red would be ni it must be dark—dark enough a blending contrast for the varie of the furniture. The vigorous c of the hooked rugs would be f entertaining.

Always the problem is to bal use variety—with discretion— the room effect easy to see and of that hopping aspect whicl from too many accents all tryin at the same moment. And the p of decoration that we have seen out here apply exactly to all of t kinds of rooms in the house.

In a living room, the little re and stands often break up mono bareness. The soft Chinese yello with its green (*continued on p*

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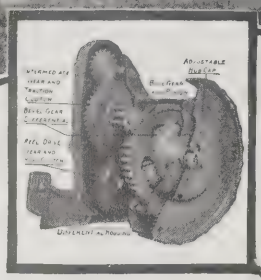

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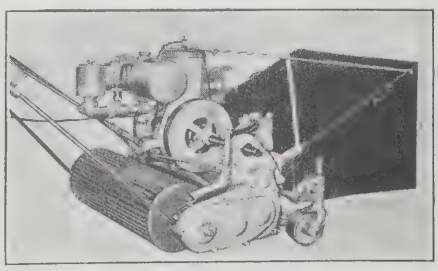

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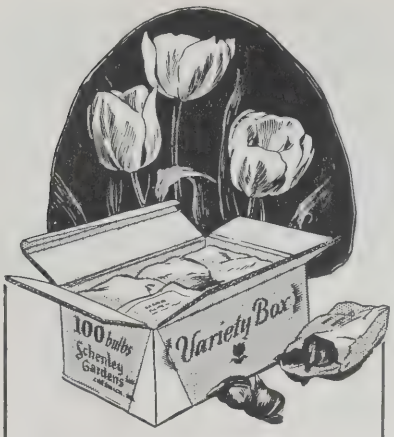

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Cheswick, Penna.

In this small room adjoining the kitchen, table and benches have been built to carry out the simple note held by the walls, stone floor and built-in dresser

Two Rooms in the Space of One

Continued from page 287

that will be particularly welcomed by the owner of the small home where it is so necessary that every object be in harmony with the room picture. In a large home it is an easy matter either to disguise or obscure any unpleasing feature. The reverse is true in the small home where everything seems so exposed and so very definitely part of the whole. To have a nook, then, designed to make the most of all floor and wall space is a matter of importance.

Still another type of room slips into the walls between the studding, vanishing as if at touch of magic wand—leaving the floor space for other uses. This same manufacturer has a wall surface type that only projects two inches from the wall to which it is fastened. Almost instantly installed this table seats four easily, the table leg at the end being so shaped that a fifth person may sit there. And as if these models were not enough there is still another fold-away room that hides behind small glass doors and looks like a bookcase.

All of these 'rooms' are sturdily built and so well designed that they are devoid of any makeshift atmosphere—rather do they bring a fine decorative quality to a room; and what they supply in the way of ease to hurried maids and mothers, cheer to the breakfast table, and joy to family life is almost beyond estimating!

With each of these tables, whether fold-away or built-in, there should be sufficient convenient electric outlets, so that the percolator, toaster, broiler, etc. may be quickly attached. And to lend cheer and charm to such tables is the colorful, well-designed pottery from Holland, Italy, Spain and France, now to be had at most department stores.

Furniture that Reflects the Spring

Continued from page 324

decoration can redeem many an ugly spot. The table desk may be entirely rejuvenated in its deep lacquer red and blue-green—and picture frames and mirrors can add immeasurably to decorative effect when properly colorful.

Technically, the painting process is not very difficult, particularly with the modern lacquers. They do not require the many coats and the scraping that is necessary for a good painting job, and the fact that the finish dries quickly with an excellent surface makes them especially helpful.

If the furniture is all cracked or blistered, it is absolutely necessary to get down to the original wood. You cannot do even a fairly respectable job over it, to say nothing of a good one. This means varnish remover and scraping. Detailed instructions are always on the can and should be followed to the letter. When the surface is scraped, after the varnish remover has done its work, it should be sponged off with benzine or denatured alcohol, according to directions on the can, and be allowed to dry. It should then be sandpapered. The next step is filling the pores with a regular filler. Then follow two or three coats of color—preferably three—with sandpapering between coats after they are dry.

If the furniture does not have to be scraped, the old finish should be either sponged with lye and water or ammonia and water to take down the shine and remove any grease or dirt. This statement holds true both for varnished furniture and painted.

If lacquer be used, if the furniture finish is cracked or in poor condition, there is an undercoating which may be applied first, and the lacquer put on top of it without additional labor. New furniture with no paint should be filled with the maker's paste wood filler before applying the lacquer itself. All furniture should be clean and free from grease, oil or wax before any kind of finish is applied. They should also be dry. The brushing lacquers require no sand papering. The substance dries soon.

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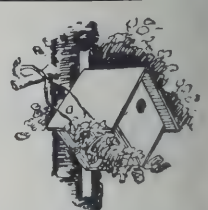

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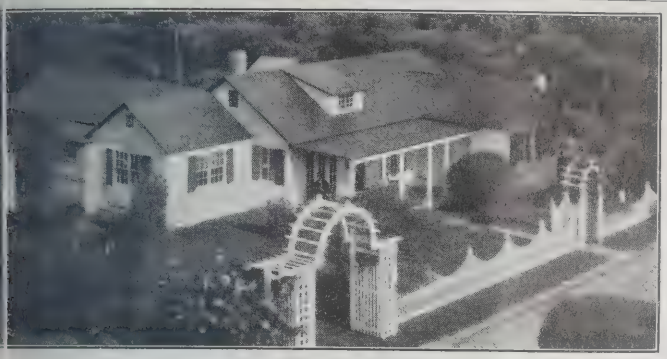

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Dahlia Growing Is So Easy!

Continued from page 267

out until that period. Such late planting will produce good plants that will come into bloom at the season when Dahlias are at their best, when the days are hot and the nights are cool.

Plants are best, all things considered, for exhibition blooms, but they need a little more attention early in the season. Generally speaking, plants will produce good tubers if the plants are set out early. If poor tubers are produced, it may be the fault of the variety or the result of lack of care at a critical period in the early life of the plant.

Depth of planting is a matter for serious consideration. If the soil is porous, tubers can be set so that they are covered six inches. If the soil is more compact, the tubers should be covered about three inches. Deeper planting is an advantage in a dry season in that the roots are in the cooler and moister area of the soil during the early part of the season.

In deep planting people often make the mistake of covering the tuber and filling the hole in one operation. A much more desirable practice is to cover the tuber or the pot ball of a plant with about an inch of soil, filling in the remainder as the plant grows upward.

Tillage, or cultivation of the soil, is important and should be started as soon as possible after planting. Cultivate every week or ten days, and as soon after a rain as it can be worked. At the beginning of the season, cultivate deeply but as soon as flower buds set, the tillage should be made shallower so as not to injure the feeding roots which extend out to a considerable distance beyond the plants.

Frequent cultivations kill weeds as fast as the seeds germinate and create a dust mulch. The mulch conserves soil moisture, permits air to be admitted to the soil for absorption by the roots and to assist in making the plant nutrients available.

Three methods are in vogue in training the Dahlia. The first method is to set the plants or tubers and then allow the plant to develop as it will, permitting every bud to flower. This, of course, will result in the production, later in the season, of a number of small, poor flowers. Also the plant will probably harden up, thus reducing production.

The second, and most practiced, method is to allow the central axis to develop so that a flower will be formed at the apex. The plant will then branch—low, if the bloom has been disbudded and the stalk disbranched; high, if no disbudding or disbranching has been practiced. These new branches will form the framework for later bloom.

The third method, and the one used by commercial growers, is the pinched back system. As soon as the plant has made two or three pairs of leaves, the growing tip is pinched out, forcing the branches to appear in the axils of the leaves. Commercially, when each of these branches grows until it has two pairs of leaves, it is pinched, resulting in a further branching. With one pinching plants can still develop large enough to require some support. The great advantage to this method is that the plants are kept low.

Pinching back tends also to delay blooming. Each pinching sets the bloom back four to six weeks, depending upon the variety and the growing season. By this method, then, the bloom can be delayed until it is desired.

Some growers follow the practice of allowing the central axis to develop to a height of three or four feet and then cutting this back halfway. By this practice, the feeling has been that a stronger root system is developed to start and support the new growing points.

Each year the GARDEN & HOME BUILDER publishes a list of the outstanding new varieties of the year. To one who is looking for novelties, these lists are the final court. Varieties differ considerably in their adaptability. For easiest growing, with a minimum of attention, select tried varieties. Furthermore, a list of varieties for easiest growing would contain those varieties having vigorous growth, with thick, leathery, pubescent leaves. Avoid varieties having slender growth or thin, soft, smooth foliage unless considerable effort is to be spent in protecting the foliage from sucking insects.

The Fun of Fixing Up a Farmhouse

Continued from page 272

is in shade, I planted two Japanese Yews since they are hardy, like shade, and do not grow much higher than four feet, though sometimes they spread as far as ten. Canadian Yew and Japanese Barberry with its delightful red berries were also part of this planting and thrive well in either partial or full shade. Near the side entrance which has some sun, I placed a group of Pfitzer's Juniper, and for accent two Irish Junipers, also some Waukegan Junipers. None of these attain a height of more than seven feet.

Directly off the old Dutch porch at the rear, Darwin Tulips and Forget-me-nots were massed and are succeeded later with Zinnias of the salmon-rose variety. As my own preference is for the informal rather than the classic type of garden and since somehow naturalistic effects go better with the simple little farmhouse, I planned my borders for irregular mass effect. Large groups of Shirley Foxgloves, Larkspur, and some lovely long-spurred Columbine are backed by shrubbery and evergreens. Of course, there are spring bulbs too, here and there among the shrubs, and all bare spots are filled with annuals after the perennials have given their season of bloom. Great drifts of Sweet William run along the low picket fence in front and seem especially to attract the passerby, perhaps because they fit in so completely with the old stone house and its surroundings. Sweet William is one of the obliging flowers that will flourish in partial shade and seems to be well pleased with its location.

I had to have a bird bath, and placed it among some White Pines behind the house. There is an outcrop of lime rock on this part of my little property which intrigues my imagination and offers hospitable conditions for creeping rock plants—but the development of my rock garden is another story to be told on some other occasion.

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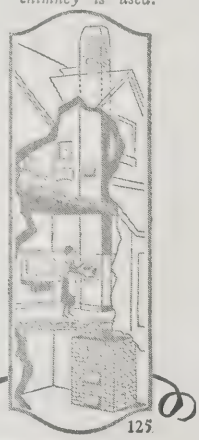

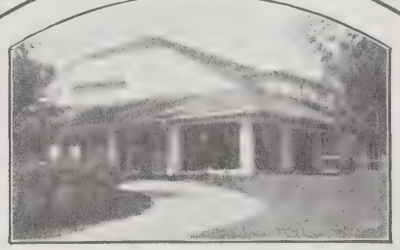

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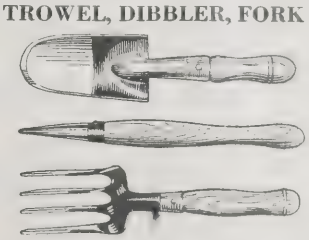

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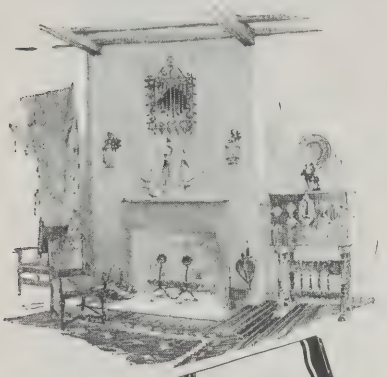

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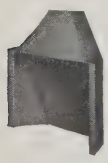

At right: Phantom view of typical installation. Note cold air intakes, double walls, and warm air outlets.

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Better Varieties of Old Favorites

Continued from page 258

could have a garden without these charming face-like flowers. There is the popular newer sort, Jersey Gem, a truly liberal plant giving flowers of royal violet for months and months. Smaller but ever popular because it appears like an improved wild Violet is the variety G. Wermig. When Monsieur H. Correvon, the Swiss plantsman, toured the United States he spoke in glowing terms of his Viola known as Floraire, a true blue which is always in bloom unless covered with snow. All Violas become straggling in growth. Take off some of these shoots in summer and use them for cuttings, inserted in a shaded sandbox, thereby increasing the number of plants as well as improving the shape of them.

Is there a person who knows the various Veronicas who is disappointed in them? The range of blue color charms us to grow one species after another. The spike of bloom, in each case is proportionate to the leaves, and the plants have an appearance of uprightness and stability. Early in spring the Rock Speedwell (Veronica rupestris) from its mat of attractive green foliage sends up hundreds of its dainty spikes of bright violet-blue tiny flowers and hides the soil; variety flexuosa has paler flowers and grows little over an inch tall; variety nana is dwarf but deep blue; variety rosea is also dwarf but bears pink flowers. These are ideal carpeting plants.

Following the Rock Speedwell in season is Veronica spicata, growing 18 inches tall with stems rather prostrate and with ascending flower stalks; varieties are blue, pink and white. Of this same type, but dwarf, is the newer sort known as True Blue, with an overwhelming profusion of blue flowers. To contrast with these, we have the Gray Speedwell, a white leaved plant bearing purple flowers. It is in late summer that the largest spiked sort blooms. It is the Clump Speedwell, Veronica longifolia subsessilis. This is a truly handsome sort with large spikes of deep violet flowers coming at a season when other perennials are beginning to wane in bloom. It is propagated by cuttings in spring because the seedlings give inferior flowers.

Many persons believe that shrubs are tall, bushy, woody plants and relegate such plants as the Daphne to the class of herbaceous perennials. Daphne cneorum, the Garland-flower is really a diminutive shrub. It is one of the truly superior plants for the front line of the perennial border. The dense clusters of pink flowers open in May and then reappear in the early fall. The fragrance is another of its choicest possessions. It prefers a perfectly drained soil and one that is not enriched. Its popularity has caused this shrub to be among the rather rare sorts among nurserymen.

Lovers of Forget-me-nots need not be reminded of them but many gardens do not contain a similar plant catalogued as Anchusa myosotidiflora, the Siberian Buglos, one of the only true blue perennials of spring. Unlike its taller sister species, the Italian or Dropmore Buglos, this species is prostrate, has small forget-me-not-like flowers and appears in the early spring.

Two sorts of Aster must be mentioned as they are alpine sorts but useful for the perennial border. Mauve Cushion is late, flowering in October, The little plants are nine inches tall, two feet in diameter and have good foliage for the front of a border but so completely hidden during the season of bloom by a mauve veil of blossoms.

The true Alpine Aster (Aster alpinus) has been a popular perennial for some years but when the larger flowered Goliath is known it will be more widely grown because of its early bluish purple flowers. Both this and the above sorts are sensitive to poor drainage during winter.

Of course, in describing this class of perennials we cannot omit the favorite Snow-in-summer, Cerastium tomentosum, with its gray leaves and its glaring white flowers. Have you noticed that these flowers have five petals? The first glance causes one to believe that there are ten petals because each one is so deeply cut. When these plants finish bloom cut off the straggling shoots and insert them as cuttings into a cold-frame. When you need some plants in early spring for renovating the border you will have well shaped young plants often superior to their parents.

So well known are Columbines (Aquilegia) and such lovely sorts are found even among the wild species that it is difficult to conceive of improvements, yet Mrs. Scott Elliott, a British woman, has concentrated her efforts upon increasing the range of lovely colors in the long-spurred races. She has placed superior mixtures upon the market but so anxious is she to maintain the standard that only the best is sold each year and in small quantities. Readers have known of the European awards made for her productions and have ordered seed to find that they are often little better than their own self-sown seedlings. This is because the true race is as yet scarce in the nurseries. Mrs. Elliott donates to the Red Cross the money derived from the sale of seed.

Many so-called rock plants are merely low perennials which do not like too much fertilization but insist upon good drainage and if possible cool root runs. For such plants, then, mulching with peat moss should help to conserve summer moisture, and to keep the plants from exposure to a veritable baking of the roots.

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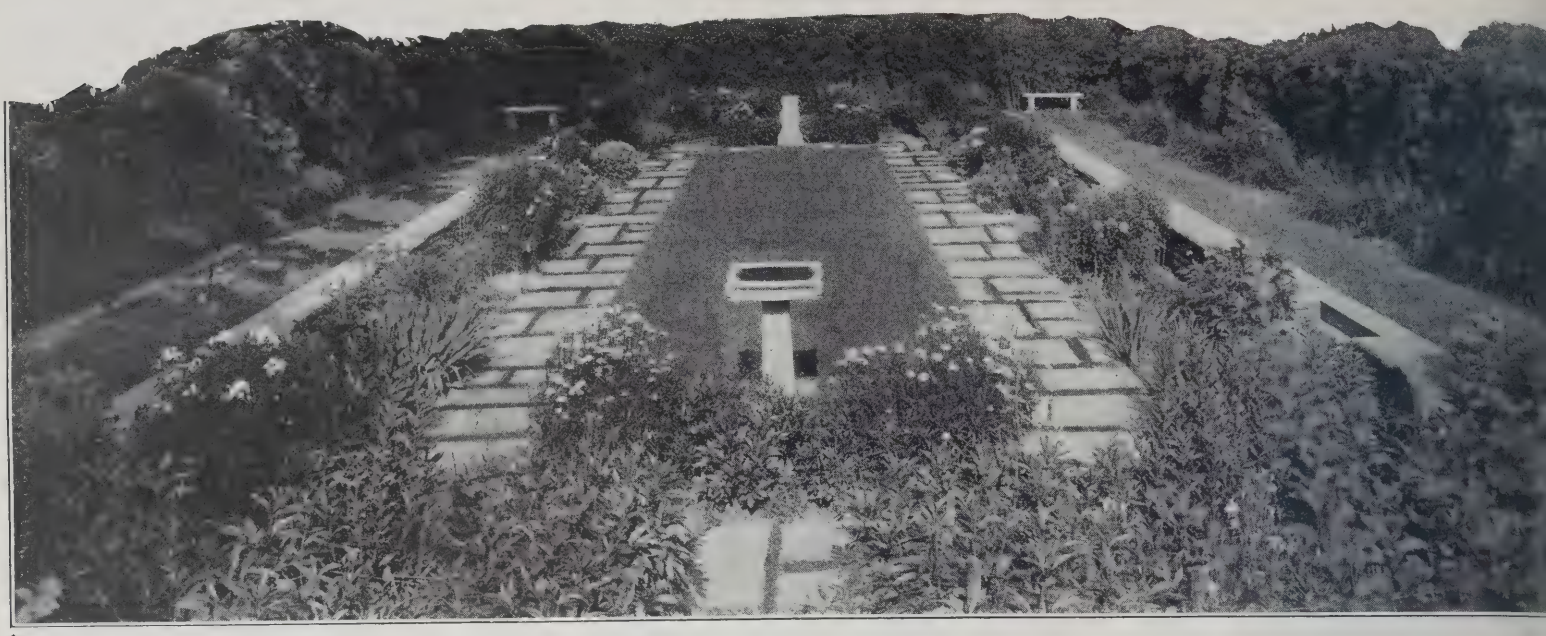

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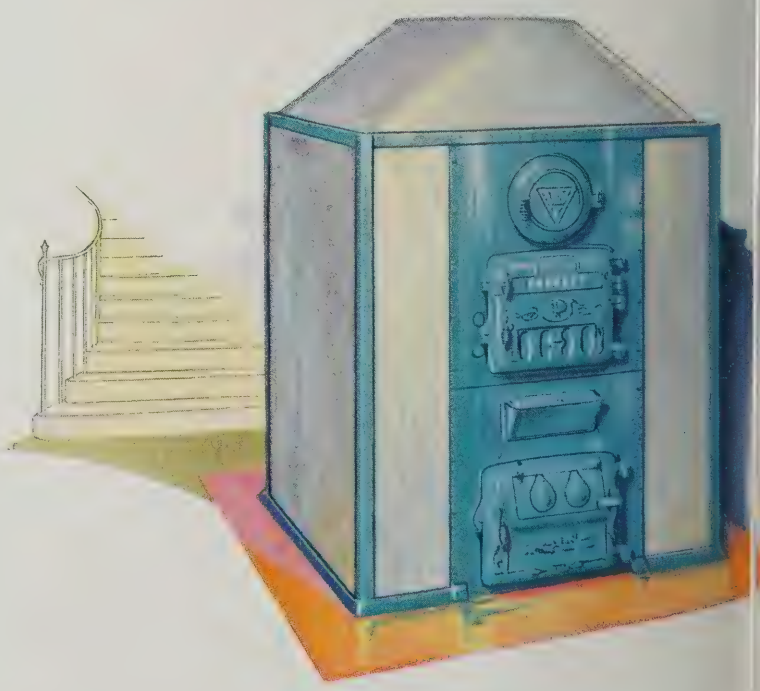

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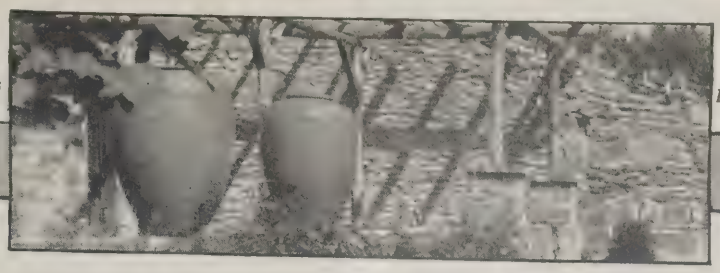

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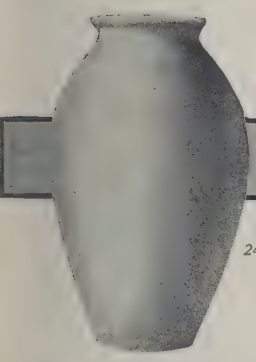

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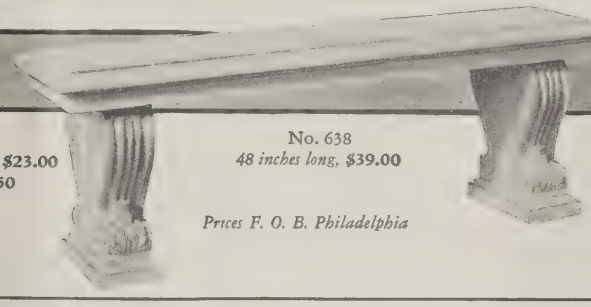

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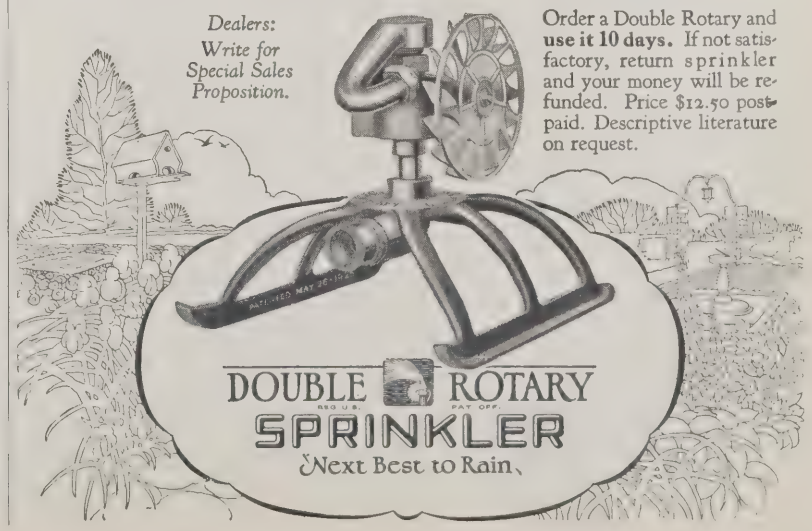

SHOP WINDOWS OF MAYFAIR

By Shirley Paine

With the trees starting to bud everyone thinks of slip covers, garden furniture, curtains, summer home decorations generally. You will find several this month. Everything has been personally passed upon by Shirley Paine and each article was included because of some special merit which placed it above the average . . . . What I would like now is to have readers write in suggesting things to show. What have I been neglecting! Have I shown too many of anything? This is your section and it will be made, as nearly as possible, to suit your needs.

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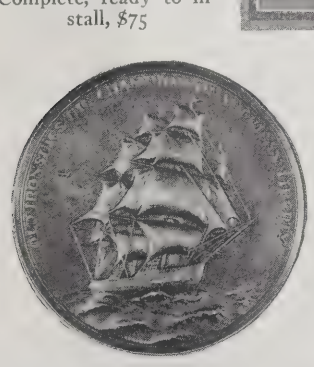
Some of us who take long motor trips during spring and summer will be glad to find a running board search lamp of fine construction and adjustment. This Aga lamp is chromium plated—the hardest known metal—it never needs polishing and does not rain spot. An accurate reflector makes possible a power beam to illuminate details far ahead. For night driving it spares the other driver but never misses a ditch or detour sign. Turns at a touch of the hand. Complete, ready to install, $75

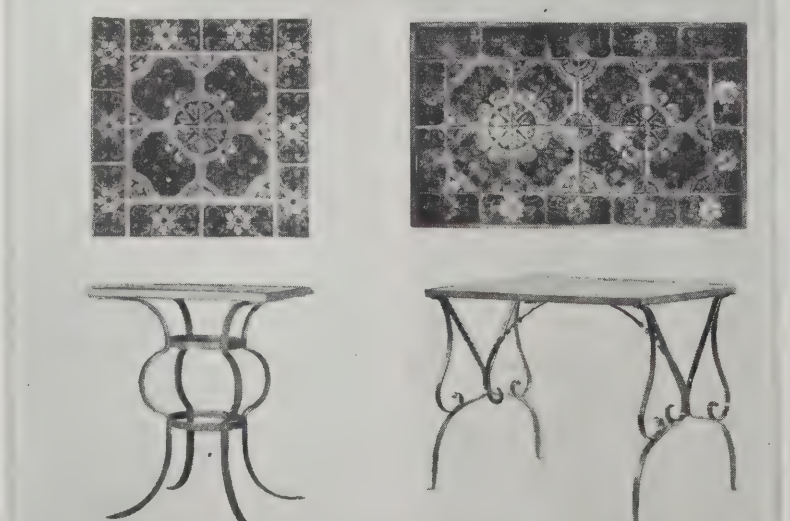
And now one can have Smokador ash-stand i Italian Renaissance de sign to blend in with th most luxurious surround ings. Ashes, cigarette and cigar stubs dro down the patented ho low stem into the hidde jar at the base whic lifts out for emptyin No smoke or odor possible; no longer is necessary to sweep u the result of a turne over ash-stand of th usual type. Finish either statuary bron or mahogany. The $1 price includes delive 100 miles N. Y. Che to Shirley Paine



A new style flower pot holder which combines good looks with usefulness, and at prices which are hardly believable. It is made of heavy metal green enameled, and in several styles besides the one shown here. The outstanding feature is a water receptacle which can be removed by a turn of the hand, and which holds excess drainage. For 4″ pots, $1.75; 5″, $1.90; 6″, $2 10; 7″, $2.35; 8″, $2.60; 9″, $3.10; 10″, $3.50. Write me for prices per dozen and folder

The very practical Carl Zeiss D trintem, pictured above are pro ably the most popular prism bi oculars ever made by that famo house. They are 8 power, and t wide angle embraces a large ar without having to center co stantly upon a moving obje With exceedingly fine light-gath ing capacity they are useful twilight and at night. They a absolutely dust and moisture pro In a leather carrying case, $ delivered 100 miles N. Y. I have catalogue showing 28 differe models from 3 to 18 power

At last one can have the glorious old *Constitution* perpetuated for all time in a plaque of wrought iron. This is being cast from the actual iron in the famous frigate by special permission of the Boston Navy Yard. Not only has it great sentimental value, but is as good a bit of decoration for the seaside home or man's quarters as I have ever found. Best of all comes the news that the price is $3.50 postpaid in America



Grace, beauty, warmth, and color in Spanish tile top tables to grace your terrace, veranda, or solarium. Yellow and blue-greens predominate and the sizes are ample, being 17″ square x 21″ high and 17″ x 29″ x 22″ high. They fairly breathe of the sunny orange groves of old Seville, and must not be confus with commercial imitations turn out by mass production in t country. There is no packi charge, and the importer bring these to you has a world-w reputation. Price, $35 and $ F. O. B. Springfield, Mass.

MOVIES
T HOME

X Moving Picture Camera $30.00
X Moving Picture Projector 38.50

EX is the leader, the world over, teur moving picture machines. re the lightest and most easily d—as well as the most economoving Pictures of yourself, your n and friends are a source of easure for ALWAYS—pictures ll treasure more and more in ars.

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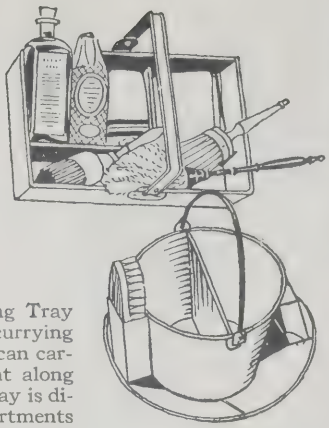
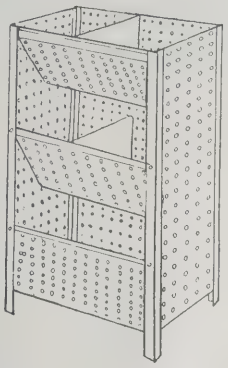
WHAT JANET GRAY SAW AT LEWIS & CONGER

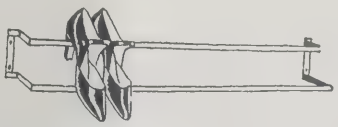




THE Housecleaning Tray saves me a lot of scurrying around because I can carry everything right along with me. The Tray is divided into compartments for brushes, soaps, cloths, polishes, etc. It's enameled blue and costs $3.25. Also comes in red or oak brown.

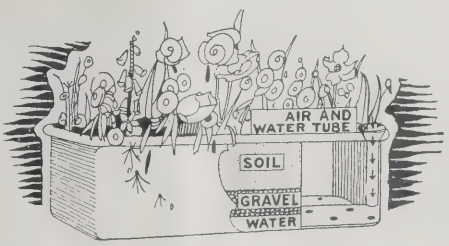
WITH a Housecleaning Pail, spring cleaning cheers up immensely. And certainly it is easier. The Pail is partitioned—one side for soapy water, the other for clear. It has an attached basin to catch the drips. Enameled a cheerful blue. Also comes in red or white. $7.00.

ONE REASON I like my Vegetable Binet so well is that it keeps fruits and vegetables tidily together. It also keeps them fresh. The Binet is made of light, strong steel perforated all over—which permits the air to circulate freely. It has five bins, yet is so compact it fits in happily almost anywhere. 33″ high, 20″ wide, 12″ deep. $10.00.



A REALLY good idea, I think, are metal Shoe Racks. We have two on each bedroom closet door. They keep the shoes in neat rows, off the floor, safe from dust and trampling. In black or bronze finish, 20″ and 24″ long. $1.00 each.

I GOT tired of using the heel of my pump as a hammer and so one day invested in the Handy Nail Box. It's only 12″ long, but it holds a hammer, tack lifter, gimlet, screw driver and pliers, and tacks, screws, nails and hooks. $6.75.



I HAVE a garden indoors—thanks to my Savo Flower Boxes. Flowers bloom long in the Savo. Because at the bottom is a reservoir, and from the soil irrigated in a natural way like this, the roots absorb nourishment. Of galvanized steel, enameled in green, 29″ long, 9½″ wide, 8″ high and it cost $4.00.

HAT Holders are little bronzed rings that fasten to closet walls. They hold hats out, away from the wall—keep them from getting out of shape and from being knocked off on the floor. Especially good for men's hats. Only $1.00 for a set of three.

LEWIS & CONGER

45th St., and Sixth Avenue, New York City

Janet Gray

The things described here by Janet Gray may be purchased by mail. Just fill in the coupon and mail

Send me the articles checked below:

Enclosed is .....check ..... .money order.....send C.O.D. .....

.....Housecleaning Tray $3.25 (state color)
.....Housecleaning Pail $7 00 (state color)
.....Vegetable Binet $10.00
.....Shoe Racks $1.00 (state finish and length)
.....Handy Nail Box $6.75
.....Savo Flower Box $4 00
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How you can get
Better Values
in home furnishings

(send for FREE BOOKLET D-5)

"THE Correct Care of Home Furnishings" is a "book of revelations" on how to achieve charming effects in the home, and how to take proper care of home furnishings. In addition, it explains the Peck & Hills plan of securing larger selection and guaranteed quality at money-saving prices through your local dealer!

Ask your dealer to give you a signed *Card of Introduction* which admits you to any of the fourteen Peck & Hills wholesale displays. Reduced overhead for both dealer and manufacturer results in better values for you.

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Out-of-the-Ordinary — Beautiful — Inexpensive

Hand Wrought Lighting Fixtures

Peacock *Independence Hall* *Chippendale*

Tin Brass Copper Pewter

DISTINCTIVE SCONCES

These Sconces are faithful hand-made reproductions of exceptionally fine original antiques. They preserve all of the distinctive beauty and charm of the originals and add greatly to the tasteful atmosphere of any home.
They are furnished in tin (bright or painted), copper, pewter or brass, completely electrified.

Send for illustrated catalogue showing over 35 models of distinctive lighting fixtures

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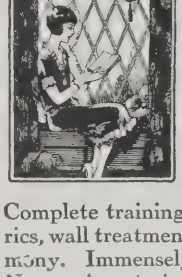

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A complete catalog of Weathervanes Gate Signs Fourscrapers Doorstops Doorends sent on request.

An aluminum vane
The Two Crows
14" long. Finished in natural colors.
Price $9.00 complete, ready to erect.
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Mail check with order to
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Old Fashioned Hardware *AT* Old Fashioned Prices

Illustration shows front and back view of our Cottage Type Door Latches in an unusual Urn design. We furnish these complete in two sizes suitable for interior or exterior doors.

All our pieces are authentic copies of Old-World models and are ruggedly made of iron finished in dull black or natural iron.

Our Door Latches answer the ever growing demand for Hardware that is picturesque and distinctive, that gives indefinite service, but which costs as little as the ordinary variety so common on the market to-day.

Large Door Latch $2.25
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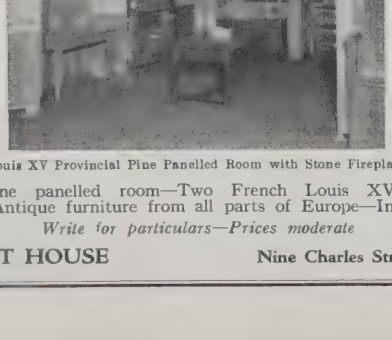
Box 58, Chimney Rock, N. C.

IMPORTED ROOM PANELLINGS



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One English Pine panelled room—Two French Louis XV Provincial half panelled rooms—Antique furniture from all parts of Europe—Interior decorations.

Write for particulars—Prices moderate

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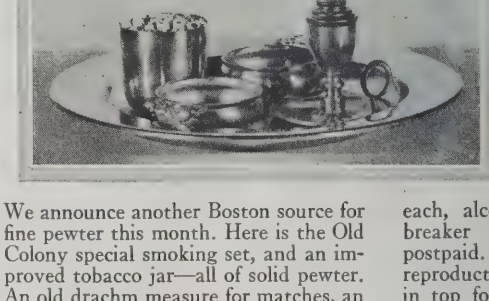
SHOP WINDOWS OF MAYFAI

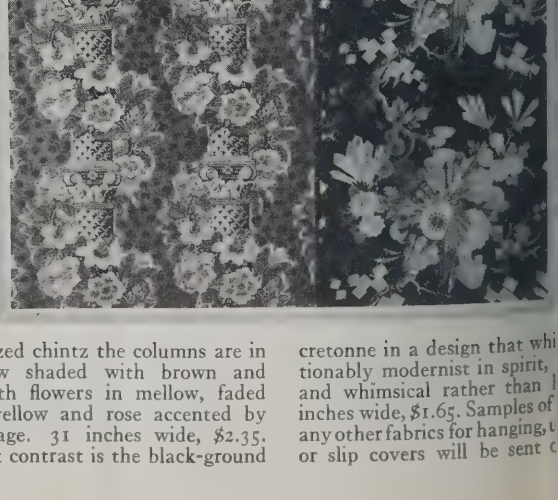
Shopping Service

America's most complete playthings store has asked me to feature their special Pathex movie camera outfit using 10 mm. film at an expense about ⅓ that of any other movie camera in the world. A full library is available of all the leading film hits at $1.75 a roll. The camera is only $28.50 in black leather case; the projector, $38.50; folding screen, $5.00. Delivered 100 miles N. Y. Check to Shirley Paine

This new proved Vege net does mar preserves v and fruits circulation supply is a sight—a gl you what *Kitchenette*, x 16" wide x *Apartment*, x 10; *Fam* 20 x 12; *Sp tra*, 42 x 2 Heavy p steel in a bronze, or enamel in a Prices: $6 $9.50,



We announce another Boston source for fine pewter this month. Here is the Old Colony special smoking set, and an improved tobacco jar—all of solid pewter. An old drachm measure for matches, an old-time courting lamp for the lighter, a chemist's porringer for ash-receiver. The 12" plate is $9.45, porringers $2.65 each, alcohol lighter, $5.25, breaker $2.10. Complete postpaid. . . . The humidor is reproduction of an old herb in top for sponge. These tw wonderful combination for th inating. Humidor 5½" high, 4" $10.50 postpaid



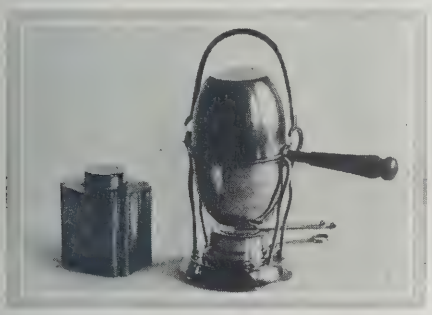
In this glazed chintz the columns are in soft yellow shaded with brown and twined with flowers in mellow, faded tones of yellow and rose accented by green foliage. 31 inches wide, $2.35. In piquant contrast is the black-ground cretonne in a design that whi tionably modernist in spirit, and whimsical rather than inches wide, $1.65. Samples of any other fabrics for hanging, or slip covers will be sent

HOP WINDOWS OF MAYFAIR

Shopping Service

and original drawings are high ays; for this reason a fine Bos- now offers photo-etchings on paper which are so perfect that ts find it hard to tell them from originals. Many artists are included in the series similar to the two above by Francis Gretty, and the price of 50c each in size 10½ x 12½ is good news. Write Shirley Paine for catalogues

one of America's finest house- y stores announces something and different—Melotex, the tray." In 10" x 18", blue border with ship, $8.50; green border with ship in 12" x 20", $10.50; flower panel in warm colors with red border 12" x 16", $10.50. Delivered 100 miles N. Y.



g idea, direct from memories norous days of Old Russia has through the customs, for mak- cus drip coffee. Put in finely ot pulverized) coffee, pour water, swing it upside down and there you are. In 3 cup size, burnished copper silver lined and brass frame, $14; 4 cup size, $16.25. Coffee or tea caddy to match, solid copper silver lined, $8. Delivered 100 miles N. Y.

In July 1908 a small pottery started in the cellar of a little house in Brookline, Mass. Through sheer merit it has grown until it now fills a beautiful building. Besides a regular pottery school there is offered a special summer course from July 10 to August 2; 12 lessons for $24. Write Shirley Paine at once for complete catalogues and price lists

Beauty

Graceful beauty . . . delicate colors . . . unusual patterns . . . you will find them all in our shop—importers since 1798 of china and decorative wares for America's most exclusive hostesses.

Candlesticks and bowl pictured above are a delightful shade of green crystal glass, beautifully engraved with sprays of flowers. Candlesticks $40 the pair; bowl $28; comports to match are $32 the pair.

The dinner plate is a very old Spode design, characteristic of early American ware with contemporary scenes of that period. One of our many sets carried in stock.

Any piece gladly sent for your approval.

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32 NEWBURY STREET
68 SCHOOL STREET
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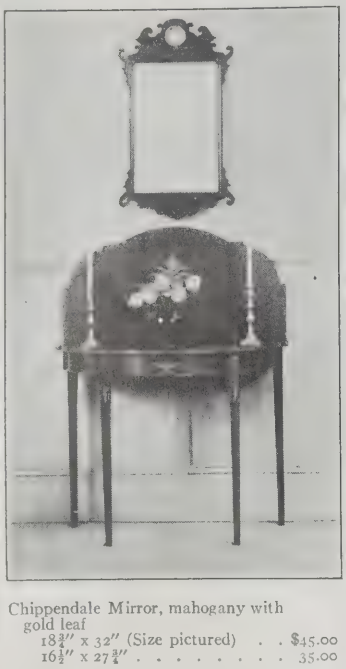
for
Hall or Living Room



Chippendale Mirror, mahogany with gold leaf
18¾" x 32" (Size pictured) . . $45.00
16½" x 27¾" 35.00
Hepplewhite Console Table of Mahogany with Satinwood inlay . . 51.00
Colonial Candlesticks 8¾" high
Brass . . . . . Each 3.75
Pewter . . . . . Each 5.75
China Bowl (About 6½" in diameter) In Turquois-Blue, Yellow, Pink or Apple-green 7.00

Send 10 cents for illustrated folder

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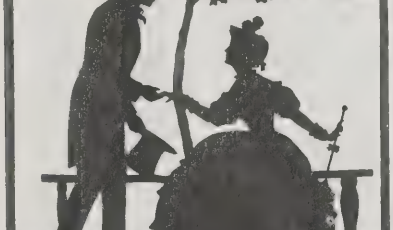
31 Newbury Street
Boston, Massachusetts



The Trysting Place

Silhouette scene printed in black on cream paper 10" x 10". Price $1.00 unframed.

Framed in old maple with black inner edge $3.25 complete. Or in an old style black and gilt frame. $3.50 complete.

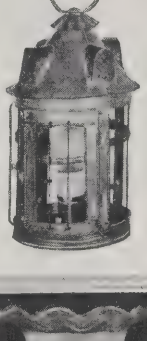
Send for S-3 circular illustrating other scenes and silhouette heads.

FOSTER BROTHERS
Arlington, Mass., and
4 Park Square, Boston, Mass.

SHOP WINDOWS OF MAYFAIR

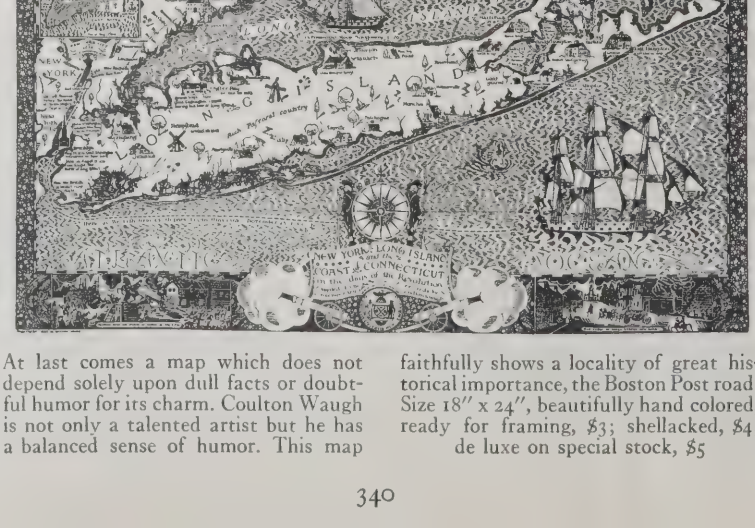
Shopping Service

Swedish glassware is rapidly coming into its own. Decorators everywhere were quick to appreciate the artistic merit of it. The few choice pieces shown here are but a tiny group chosen out of a catalogue showing hundreds of patterns. These pieces are smoky color and of every conceivable shape. The bowl at left is $2.50; glass, $1.20; oval decanter $14; round decanter, $13.25; glass, $1.75; compote, $4.50



Fairly large lanterns for porch, lodge gate, porte-cochère, or driveway entrances are often hard to find just when you want them. With spring hard upon us I sought for something suitable, and proudly announce this Italian monastery lantern reproduced in heavy wrought iron and properly wired. It is entirely hand-made by a forge in Connecticut, and will carry you back to old Certoza outside Florence. The price, $30

Another Boston house offers an exceptionally complete line of Colonial hardware and lamp reproduction, and their elaborate catalogue will be available early in May. Write Shirley Paine for this. This month they are featuring a charming authentic reproduction of an Old Heart Lamp in hand blown and hand cut glass. I inspect every reproduction written into this section, and you will not be shown any mid-Victorian horrors. This lamp is tall, being 18" overall. Price electrified $20, prepaid anywhere



At last comes a map which does not depend solely upon dull facts or doubtful humor for its charm. Coulton Waugh is not only a talented artist but he has a balanced sense of humor. This map faithfully shows a locality of great historical importance, the Boston Post road. Size 18" x 24", beautifully hand colored, ready for framing, $3; shellacked, $4; de luxe on special stock, $5

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GODEY PRINT CHI
36 inches wide
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Reproduced from Godey's Lady in pastel colors on pink, blue, gol peach, etc.

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of the better sort. Pompeian Stone, Lead, Marble. *An illustrated catalogue sent*
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them thoroughly with "Herbi-lution, and it's done. Roots as tops will quickly die. Ten times han hand weeding and better, be-reaches the roots without disturb-surface.

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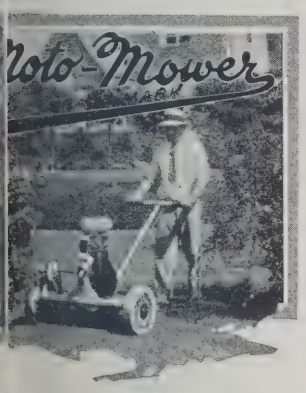
WEED EXTERMINATOR
lication Kills Both Tops and Roots



Springtime Mowing

the sunshine of May
s cutting begins in
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your lawn quickly, eas-
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it to right or left, on
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Grow Better Roses

Control Mildew and Black Spot

SPRAY with invisible Fungtrogen. Acts like magic on roses affected with Mildew or Black Spot. Stimulates plant and gives to any amateur blooms as brilliant and profuse as professionals achieve. Fungtrogen spray is equally effective for hollyhocks, snapdragons, geraniums, chrysanthemums, phlox, sweet peas, etc.

No discoloration of leaves. Does not clog nozzle of sprayer. Dilute 60 times for use. *Endorsed by leading horticulturists.*

Prepaid: half-pint $1, pint $1.50. Ask your dealer or send check.

ROSE MANUFACTURING COMPANY
3636 Filbert Street Philadelphia, Pa.

Use these companion sprays: Aphistrogen kills aphis (plant lice), Insectrogen kills leaf-eating insects.

Fungtrogen
FUNGICIDE AND STIMULANT
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Write for free bulletin, "Black Spot Control." Valuable to every rose lover.

"We always get clean hot water from our heater"

Easily connected with boiler.

ALWAYS *clean* hot water for the bath and laundry. No possible chance of getting rusty water with a National Heater. Coil is pure copper and the fittings are bronze. There's nothing to rust! For so little attention and cost of operation, the National Heater is the ideal 24-hour-a-day hot water supply.

We'll send particulars promptly. Write

NATIONAL
MULTI-FLOW TANK HEATER

THE NATIONAL PIPE BENDING CO.
200 River St., New Haven, Conn.
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"RE-MOVE-ABLE"
STEEL CLOTHES POSTS

WHY use wooden clothes posts? They are unsightly and last only a few years. These posts are made of high carbon steel tubing. They are strong, attractive and will last indefinitely. Stand 6½ feet above ground. Easily removed from the socket.

Green Enamel finish, $2.25 each, complete.
Galvanized, Green Enamel, $2.50 each, complete
This price includes delivery in sets of four or more.

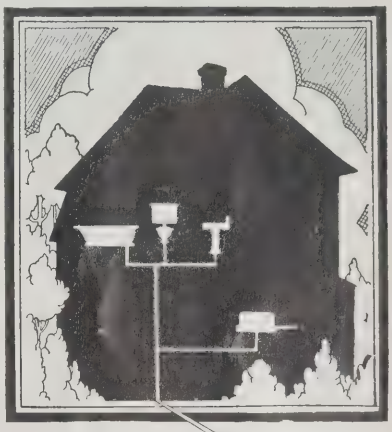
Ask your dealer, or write us for Folder G.

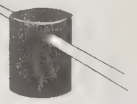
Also Manufacturers of Removable
STEEL TENNIS POSTS, FLAG POLES AND SWINGS

NEWARK STEEL POST CO.
WEST ORANGE NEW JERSEY

This Farm home

. . . has kitchen, bathroom and laundry that are as modern and sanitary as your city apartment.





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COVERT

The Moth Orchid (Phalaenopsis schilleriana) shown above flowered in January in a greenhouse where many other species were also grown

Not All Orchids Are Hard to Grow

Continued from page 282

others, while less showy than Cypripediums, demand a place in the amateur collection; their unusual forms, subdued colorings, and wonderful keeping qualities make them popular. They probably keep longer when cut than any other orchid flowers, also their culture is not difficult. Cypripedium insigne is one of the oldest species in cultivation, and is still one of the best. There are many varieties of insigne that are superior to the type running into green and yellow forms. Among these Harefield Hall and sanderae are especially desirable.

OTHER GENERA

It would be possible to select a large number of other genera and species desirable for an amateur's collection but space will not permit any extensive discussion of them. Cymbidiums, Dendrobiums, Lycastes, Miltonias, Oncidiums, Phalaenopsis, Renantheras, Vandas, and Zygopetalums, with their multitude of species and varieties, also the bigeneric and trigeneric hybrids which occur in the Orchid family, furnish a wonderful collection of plants for study and experimentation. Many are considered difficult to grow but usually the factors governing success or failure are controlled easily by anyone sufficiently interested in their culture to study the peculiar needs of individual plants and species. By many people, the Moth Orchid, Phalaenopsis schilleriana, is considered difficult to grow and flower, yet a plant I have has been given little special attention and it has produced flowers annually for many years.

Each year witnesses an increasing interest in Orchid culture by American people. In large flower exhibitions the section devoted to the display of these wonderfully interesting and beautiful plants is always crowded with visitors. The fact that an entire exhibition in New York is this year devoted entirely to Orchids demonstrates their popularity, and, let me again repeat, really they are quite easy to grow.

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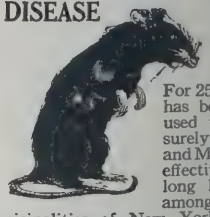

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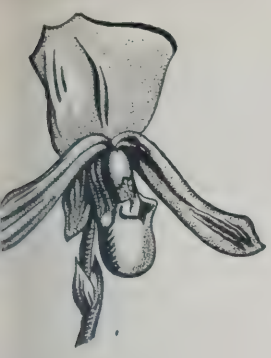

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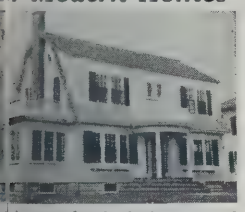

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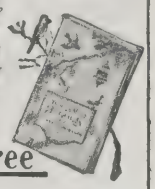

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Making Your Own Garden Ornaments

Continued from page 269

cement forms are setting so that no time will be lost.

The ideal core is the one used in the foundry for making hollow metal castings. A mixture of sand, flour and cheap molasses is formed in a core box and baked in a 'core oven.' Its consistency is such that when it is tapped with a hammer it crumbles and the sand flows out leaving a correctly shaped hollow.

It is assumed that the reader has no way of making core boxes or core ovens so more primitive means must be used. Three tin cans may be fastened together as shown in Fig. 4. A simpler method is to roll up a piece of cardboard making a cylinder two or three inches in diameter and thirteen inches long. (An inch longer than the vase form). About its center wind folded newspapers until the cylinder C is six inches long and six inches in diameter; bind with twine or wire, the latter preferred as it reinforces the cement. Now slip a tin can over each end of the cardboard cylinder at A and B and the core is ready.

After the vase has been made, the two ends of the tin cans may be cut out with an ordinary can opener, and the cardboard cylinders and paper pulled out.

Assuming that the two halves of the form are finished and the core ready, it is time to prepare to pour your cement. The form must be thoroughly coated with a heavy grease. Old crank case motor oil may be used, being put on freely with a brush; but a heavier grease such as auto cup grease is better.

Place the two halves of form on a level board, place the core in position and clamp the two halves securely together —winding a heavy wire around them and driving in wedges will answer.

Have everything ready before wetting the cement. A homemade funnel of sheet iron made to fit around the core is very advisable, but it must be made and ready before mixing the cement. The proportion of sand and cement should be at least as strong as two to one and it must be liquid enough to flow down the funnel freely.

Fill to the top of form and allow it to stand at least twenty-four hours before disturbing.

At the end of this time the forms may be loosened and removed but the vase will still be too 'green' to handle, and should be allowed to stand twenty-four hours more in the air to harden.

In the meantime there is no reason why the form should be idle. Grease again, place another core and pour another vase. In this way you can make them at the rate of one a day indefinitely.

After a vase has been out of its form two days any roughness can be removed with an old file and emery cloth, or even sandpaper.

When three days old wash with a 'soup' of clear cement and water, smoothing the surface finally with emery cloth on the fourth day. Now cut the ends of the tin cans and take out the paper core.

If coloring is desired the special waterproof coloring sold for colored stucco should be used. Ordinary paint will not do as paint is effected by the lime in the cement; but beautiful marble effects may be easily obtained by mixing separate batches of different colored cements. Have these different batches mixed dry and all ready to wet.

Get your form ready, core in place, every detail ready; then wet your separate batches but do not make them as liquid as for straight cement, else the colors as you pour them alternately will settle in horizontal layers.

Clear white cement costs about three times as much as ordinary gray portland, but for some vases is preferable to the grav. A clear brick red or a solid green is very satisfactory also.

There are of course limitations to the forms that are possible in cement when made by this method. These can be learned best by experience in practical work. Sharp corners are to be avoided as they often break in removing the molds. Thorough painting of the molds and especially thorough greasing before pouring are indispensable. The use of the sweep is only possible when the cement is as dry as it can be and still be called cement. Keeping these essentials in mind the field of possibilities is only limited by one's imagination.

A seat or bench six feet long, built to last for generations, to be exposed at all seasons to the weather, to be made and forgotten as far as any care or attention is concerned, is well worth while. Its manufacture requires far less skill than the making of the urns previously described. There are three separate parts—two legs and a top.

For the top make a shallow box 5 ft. 6 in. long, 15½ inches wide, and two inches deep. This box has a bottom but no top. Place on a perfectly level plane such as a garage floor, and pour full of cement. But before this is done certain details should be decided: how and where the legs are to be fastened to the top, and how the top is to be re-inforced. The latter is very simple. Just lay two iron rods half or three-eighths square, and five feet long on the bottom of the box, resting on small chips of cement or stone or even old wire nails to raise them slightly off of the bottom board which is going to form the top surface of the seat (See Fig. 10).

The legs should be fastened to the underside of the seat six inches from the end. The legs will have two pieces of iron rods projecting upward as shown in Fig. 11. These will fit into holes made on the underside of the seat. To make these holes fasten two cleats across the box as shown in Fig. 10. These cleats each have two half inch holes bored through them eight inches apart—the same distance as between centers of the iron rods of the legs. To make the holes in the cement, round wooden pegs or dowels are pushed through the holes in the cleats so as to extend an inch into the cement. These cleats, the dowels and the re-inforcing rods must all be in position before pouring the cement.

If a really artistic effect is desired place a simple moulding such as a quarter round, or 'cove', around the entire bottom of the box, mitering the corners as you would at the corner of a room (See Fig. 12).

Having filled the box with cement (proportion two to one) you may forget it indefinitely and proceed to make the form for the legs. It is advisable to brush with old motor oil all of these forms before pouring, and it will make the removal of the pegs simpler if they are slightly twisted by hand a few hours after the cement has been poured.

This brings (*continued on page 345*)

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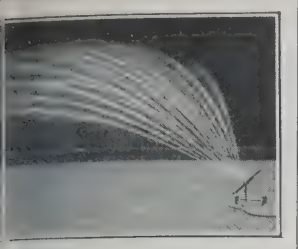

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Making Your Own Garden Ornaments

Continued from page 344

up the question of the 'artistic' again. The design given here is selected because the writer has used it many times and knows that it will work, but of course many other designs may be used. If the reader will once form the habit of getting up original designs and learn the joy of doing creative work he will find the making of garden ornaments much more fascinating.

To make the leg form shown in Fig. 11 requires seven pieces of wood. Pieces number 1-1 are the ends of the box: they are 1 inch thick, 3 inches deep, and 17 inches long. Pieces D-D are the sides of the box and are to be sawed out of three-inch wood to the curve shown. To get this curve a full-sized drawing must be made, the outline of the curve is obtained by cutting on line D with a pair of scissors and this paper pattern traced on the wood. To cut the curved edge use a turning saw or, if a mill is handy, have the mill man saw on the line with a hand saw. Smooth with wood file and sandpaper and see that the two pieces D-D are just alike.

Pieces A and C are made of half-inch wood (pine preferred) and the form obtained from the full-sized drawing. This thickness of wood may be sawed with an ordinary coping saw. Piece B is just a plain rectangular piece of half-inch wood. Take size from the drawing.

Now make a bottom for this box of one-inch boards and fasten to 1-1 and D-D by screws. When this bottom is on, fasten pieces A, B, C, to the inside of the bottom by nails or screws. Before pouring bore two half-inch holes eight inches apart as shown at H. Slip pieces of $\frac{3}{8}$ inch iron in through these holes extending three or four inches into the form and just flush with the top of 1.

Brush the whole inside of the box with motor oil, place the form on a level surface and pour the cement filling flush with top of box. The arrows show the direction the sides of box take when removing, forty-eight hours later.

The legs when removed from the form will have the raised design shown in photograph on page 269 on one side, the other side being flat. The side with the raised design is, of course, to face outward.

Two of the legs being completed, the final step is to securely cement them to the top slab, which if these directions have been followed is still in its box form, the cleats and pegs having been removed at any time after the cement has hardened.

Mix a small batch of clear portland cement and water, just wet enough to handle readily with a trowel. Sprinkle all the surfaces, which are to be joined, with water and apply to these surfaces a thin layer of the clear cement about an eighth of an inch thick. Place one of the legs in position by inserting its two iron rods into the corresponding holes in the long slab; press down snugly and test with a trysquare until the leg and slab are at right angles.

The leg should be supported in this position for a day until the binding cement has hardened. Simply pile some bricks or any material that may be handy on both sides. Short pieces of four by four lumber or an old cement block will suffice to keep the leg in position (see Fig. 14).

Allow two days for hardening, turn the bench right side up and remove the wooden form. Go over rough places with a file and emery cloth, and go over the whole seat looking for slight defects.

To summarize—no claim is made as to any great novelty in the foregoing process unless it be the making of the concrete forms by the 'template sweep' method. The 'sweep' has been commonly used for large castings in foundries for many years and this is simply an application of the method to portland cement.

The fountain shown in Fig. 15 is suggested as a real test of one's skill in using the sweep. The upright or standard may be made of a piece of vitrified drain pipe six inches in outside diameter washed with two or three coats of portland cement. The iron pipe with hose nozzle attached at the top should be set first, and used as an axis for 'sweeping' the base. The upper basin should be made separately and cemented to the top of the standard on which it rests. The rounding at top and bottom of the standard can be done with a curved garden trowel.

The Modern Note In Household Furnishings

FURNISHINGS, like everything else, reflect the trend of the times—there is a sharpening and stiffening of line, a blare of crisp color that is bound to arrest attention. Whether we ultimately decide to adopt 'modernism' in our own homes or whether we cling to the traditional, we want at any rate to know what it is all about, to see and determine for ourselves the value and appeal of the new.

The International Exposition of Applied Art to be held in New York City, May 14th–26th, under the auspices of R. H. Macy & Company, will give every home-maker this opportunity. An entire floor will be given over to choice examples of furniture and furnishings in the best modernistic manner—the merely flashy or 'jazz'—which has too often comfortably snuggled under the cloak of modernism—will find no place here. Not America only but Italy, France, Germany, Austria, and the Scandinavian countries are all contributing to this constructive exposition which is the result of a recent intensive survey of the arts and industries of Europe. The best products of the foremost craftsmen of the famous studios of the Old World have been brought over, and completely furnished rooms—representative of the various lands, including of course our own—are to be set up, through which to-day's housewife may wander at will seeing, enjoying, deciding which of these things she cares to make permanently her own.

Ten Wonderful Rock Plants

WHILE experts may differ as to the ten most valuable varieties of plants for the rockery, we feel sure that no one will call us to task for saying that the following ten kinds are among the best.

SEDUM LYDIUM. A wonderful little sedum with red tipped foliage and yellow blossoms.

VERBASCUM PHŒNICEUM. From the prostrate basal leaves of this rockery mullein, flower spikes in colors from pure white through rose to deep purple rise to a height of eighteen inches.

IRIS CRISTATA. What flower of the rock garden radiates more optimism than the little sky blue Crested Iris, stretching up to the great height of four inches!

CAMPANULA ROTUNDIFOLIA. This dainty Bluebells of Scotland belies its fragile appearance by defying man and the elements to dislodge it.

SEMPERVIVUM TECTORUM. This Hen and Chickens, unlike the feathered variety, attends strictly to business and asks little. See illustration above.

DELPHINIUM GRANDIFLORUM MINOR. Less than a foot tall, this Chinese Larkspur tries to outdo all others in producing bloom. The blue of the blossoms is about the last word in color intensity.

AQUILEGIA CANADENSIS. This red and yellow Columbine has become a leader in the rock gardens of the world.

ANEMONE HUPEHENSIS. A month before the Japanese Anemones bloom, this Chinese Anemone sends out a profusion of large deep rose-pink flowers. Very hardy. One foot high.

ANEMONE PULSATILLA. Mostly blossom framed in silky, finely curling tendrils, the violet-blue Pasque Flower glorifies the rockery during May.

CAMPANULA CARPATICA. We were tempted to leave the Carpathian Harebell out of this list, it is so common. But so are rubber tires and one would be about as likely to run a car without tires as to have a rock garden without the purple and white Carpathian Harebells.

The price of the above listed Anemones is **$2.50 per dozen,** and the other eight varieties **$2.00 a dozen.** For **$10.00** we will send you **six each of the ten varieties** and if you remind us of this offer, will include one plant of the beautiful rose-pink **Viola bosniaca—FREE!**

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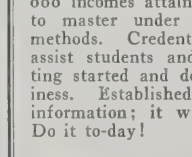

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This unusual and interesting letterbox with thistle ornaments was designed and made by Mr. Betts out of sheet lead

Watching the Little House Grow

Continued from page 264

for the exterior walls. The interior walls and partitions were rough plastered—an economical and pleasant finish. To preserve the scale of the large living room wide floor boards were used. For economy, as well as to secure spots of interest, the boards were surface nailed with ship nails, as well as blind nailed. The structural beams supporting the second floor over this room were exposed and so arranged that they tend to emphasize the length and apparent size of the room. Recognizing that marks, scratches and other accidental disfigurements are almost certain to happen in a house inhabited by small children, 'wormy' chestnut was selected as the most practical and economical wood for the interior finish. With the same consideration in mind the wood was stained a walnut color and then grayed by the use of white lead and oil applied as a thin coat and wiped off before it had dried.

Beyond the use of reasonably good judgment to secure the best possible effect from the materials used, no was made to create an impressio the house is something that it Materials were combined lo without resort to 'fake' construct their introduction with the sole achieving an effect. This honest materials resulted in a noticeabl mony between exterior and i —there is no abrupt change in cha so often noticed in houses of illogi sign. It has never looked new, does it appear exactly old. It doe some of the inherent characteris the little old stone cottages to be in the rural sections of Europe. A tion often asked is: 'What style It isn't any of the so-called style you may see houses of similar cha in England, France, Germany, tany, Normandy, or in fact wh the practical problem of build small house has been solved in a tical manner.

(In June Mr. Betts will tell furnishing and decorating his h

A Garden Thought—No Buttercups

F. C. HOGGARTH

I DON'T think much of your garden —no Buttercups,' says Bevis, in one of Jefferies' books. It is a child's frank judgment on a trim suburban garden. Thus judged, would many gardens find favor? My little plot wouldn't; yet, if hard pressed, though I don't make a specialty of Buttercups, two or three specimens of that desirable tribe might be found.

It is certainly a new standard of judgment for gardens. Your rich and rare blooms, your named varieties, my gentle and patient gardeners, are as dust in the balance when scaled against Buttercups!

In the child's estimate there is nothing to compare with those golden children of the sun, unless it be Daisies, own sisters, in children's lore, to Buttercups. What is most interesting and illuminating is the child's touchstone of value, and that carries us beyond gardens. Not rarity or even curiosity is their standard of worth; though it is for the man who specializes in Orchids and makes it profitable to keep Orchid searchers in African forests and in China, ever in quest for new and rare varieties. The child, unlike the adult, is not impressed by these sophisticated considerations. He doesn't set a price on the heads of his flowers. He doesn't normally despise the numerous, or ignore the 'common people of the flower world,' as Daisies have been called. If he thought about the matter at would say of these flowers as L said of the corresponding clas people: 'God must love the co people, for He made so many of

The child's judgment runs up a almost all our garden conve Daisies and Buttercups are outl the kingdom of gardens. Every hand is against them. 'Daisy-l are widely advertised and widely War is waged on them at every s able and unseasonable opportun friend of mine spends—or did before the war—scores of hour year on her knees, on her lawn, u ing Daisies with a fork. She ce reduced them to a minimum, th hardy minimum—tenacious of lif

What, I wonder, is the princ choice, of acceptance, or of rejec gardens? Have we any princip only conventions? Is the norm to have gardens as unlike the fiel lanes as possible? Or, if not, what aim? It is at least stimulating t our estimates challenged, that w attempt some reason for the prefe or the prejudices that are in us.

Not the least fascination of cl is that they do challenge our estim most unceremonious ways. And i judgment there are often flashes o and of insight which the adult would be wise not so consisten ignore.

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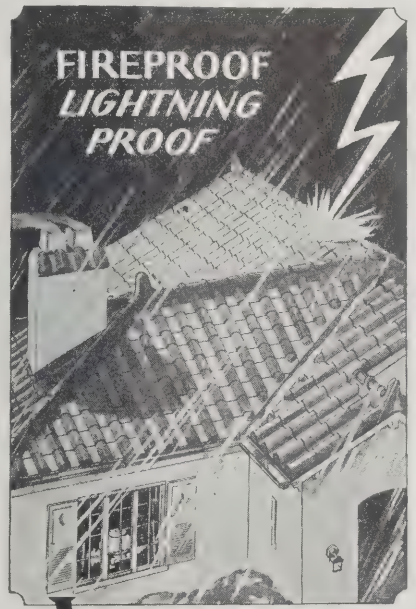

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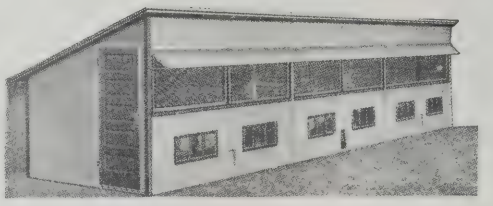

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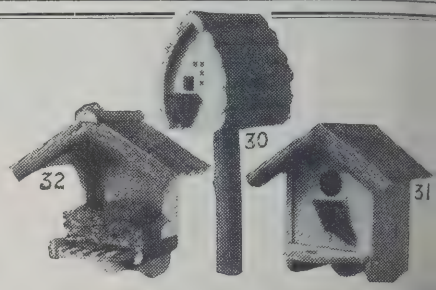

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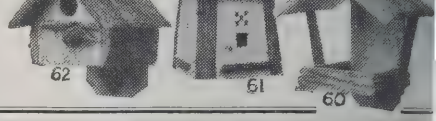

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At the first sign of dandruff, douse Listerine full strength on the hair and scalp. With fingers about an inch apart, thoroughly massage the scalp with a firm rotary motion. Keep this treatment up systematically for several days.

LISTERINE

—the safe antiseptic

You will be amazed to find how quickly you get results.

It is a curious fact that often, after costly and complicated "cures" have failed to check dandruff, Listerine has done the trick. Lambert Pharmacal Company, St. Louis, Mo., U. S. A.

TRIED IT YET? New and different!
LISTERINE SHAVING CREAM
Your skin feels marvelously cool long after Shaving.

GARDEN & HOME BUILDER

June, 1928

After an original painting by Ashton Wilson
Courtesy of the Ainslie Galleries

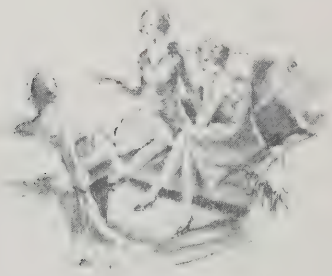
Price 35 Cents

DOUBLEDAY, DORAN & COMPANY, INC., GARDEN CITY, NEW YORK

Rug shown is Imperial Karnak Seamless Worsted Wilton, Pattern No. 6012 E

Painted for Mohawk Carpet Mills by Byron G. Newton

To the eye, enchantment and the magic of an age-old legend . . . to the touch, the softness of deep damask . . . in your home, thirty centuries of fine rug weaving held captive in the lustrous folds of Mohawk!



MOHAWK RUGS AND CARPETS

MOHAWK CARPET MILLS ✣ AMSTERDAM ✣ NEW YOR

Make Your Garden Grow The Way You Planned It

ARE you able to take your pleasure in trim gardens? Or do mysterious forces defy your beautiful plans? Do seeds come up only in ragged bunches instead of neat rows; do your tender promising seedlings succumb to some hidden evil, and do ugly disease growths appear where you expected beautiful blooms? The finest seeds, the best soil, the most favorable weather—all are of no avail if your seeds are not protected against the insidious diseases that only make themselves visible when it's too late.

You need *Semesan*, the seed disinfectant that cleanses seeds of disease and creates a protective zone around the seed in the soil during the critical growing stage. Few diseases are safe from this powerful disinfectant; yet the most delicate seed and seedling are not harmed. No special skill or equipment necessary. Directions for treating practically every seed, bulb, and root, contained in the Semesan Booklets, are so simple you can't possibly go wrong. Fifty cents' worth of Semesan and a fruit jar are all you need to treat all the seeds for a good sized vegetable and flower garden.

See what a difference Semesan made in these gardens: "I consider Semesan a veritable life-saver for Delphinium. There is little chance of failure in growing this wonderful flower if gardeners will use Semesan."—*ANGUS G. ROSS, Greenwich, Conn.*

"Used Semesan this spring on Dahlia tubers as a preventive of stunt and found it most effective. In former years I lost heavily from this disease. This year I lost none."—*A. C. PLUMMER, Dumont, N. J.*

"Semesan stops damping-off immediately without any ill effects on the plants. I have used it for two years, principally to control damping-off of cabbage, cauliflower and some annual plants that are very susceptible to this disease."—*LUTHER WHITE, Meeker, Colorado.*

"Last year was my first experience in growing gladioli. The bulbs I purchased showed considerable disease so I treated them with Semesan. My crop of bulbs this fall was absolutely free of disease."—*S. W. YINGLING, Greencastle, Pa.*

* * *

Semesan can be purchased from reliable seedsmen, hardware dealers, druggists, and general stores. You can buy as small a quantity as two ounces.

This coupon is for your convenience in securing booklets of instruction for treating every common flower and vegetable seed as well as a wide variety of bulbs, roots and corms. Valuable information for earnest gardeners. Send the coupon on its way today.

DU PONT
Reg. U. S. Pat. Off.

SEMESAN

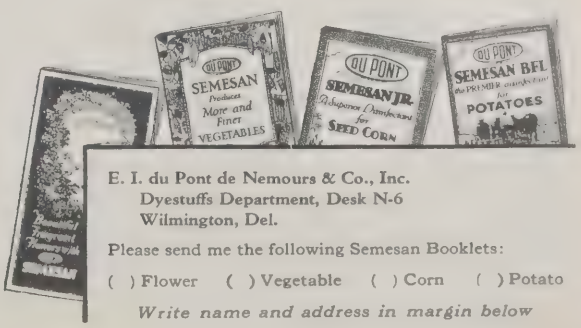
SEED DISINFECTANTS

SEMESAN *for Seed Diseases*

SEMESAN JR. *for Seed Corn*

SEMESAN BEL *for Seed Potatoes*

Send for these free Semesan booklets!



E. I. du Pont de Nemours & Co., Inc.
Dyestuffs Department, Desk N-6
Wilmington, Del.

Please send me the following Semesan Booklets:

( ) Flower ( ) Vegetable ( ) Corn ( ) Potato

Write name and address in margin below

A Glimpse of "Tulipdom" at Tuliptime

A Cordial Invitation

READERS of *Garden & Home Builder* living within fifty miles of Oyster Bay will find it well worth while to visit "Tulipdom" during the latter part of May. There will be in bloom several hundred varieties of gorgeous Breeder, Cottage, and Darwin Tulips, including many rare novelties obtainable only from us.

Those unable to call should favor us with a request for our Catalogue, pronounced by those who know to be the most accurate and truthful bulb book published. It has been and continues to be our privilege and pleasure to supply many of America's finest estates with the bulbs that never fail to win. Almost three-fourths of the Blue Ribbons at the country's leading flower shows are won by bulbs supplied by us.

Arrange right now to be in the winning class during Spring 1929 by asking for the free catalogue and please remember that it will pay you to

Place Your Order
Before August First

Your bulbs will then be packed especially for you in Holland, be handled just once (very important) and after that no human hands will touch them until you open the package in October.

We also offer a fine lot of Long Island grown Narcissus bulbs in a gratifying number of varieties at prices within the reach of all. You will find them as willing to bloom as did the formerly imported bulbs and we stand back of every bulb we supply, regardless of variety or kind.

Free Catalogue on Request and please mention *Garden & Home Builder.*

ZANDBERGEN BROS., *"Tulipdom"*
Oyster Bay, Long Island, New York
Nurseries at Valkenburg, near Leiden, Holland and at Babylon, L. I., N. Y.

Ferns for *Everywhere*

SUN or shade, poor soil or rich, it matters little what conditions confront you—you may have Ferns! We think of them as "grace personified," for where, in all the world of creation could you find an object more graceful than the lovely Maidenhair Fern shown above?

For best effects plant them in masses, grouping each different variety together. Here are five selections for widely differing conditions and purposes.

Collection No. 1—For open sunny spots 4 varieties, 35 clumps, $5.00
Collection No. 2—For dry, shady places, 4 varieties, 35 clumps, $5.00
Collection No. 3—For moist, shady places, 9 varieties, 45 clumps, $6.00
Collection No. 4—For wet, open ground, 4 varieties, 40 clumps, $5.00
Collection No. 5—Evergreen Ferns for rockery, 4 varieties, 40 clumps, $5.00
(Collection No. 3 holds, among others, 5 Maidenhair Ferns)

Six pages of our catalogue are devoted to Hardy Ferns, their culture and broad usefulness. You'll find it a fascinating book if you are interested in the naturalistic type of gardening. Please ask for it and kindly mention *Garden & Home Builder.*

GILLETT'S *FERN AND FLOWER FARM*
3 Main St., Southwick, Mass.

"Kentucky Bred" Dahlias

The spirit of autumn—a late summer's delight in your garden. Plant them soon and enjoy the blooms until frost. Here's

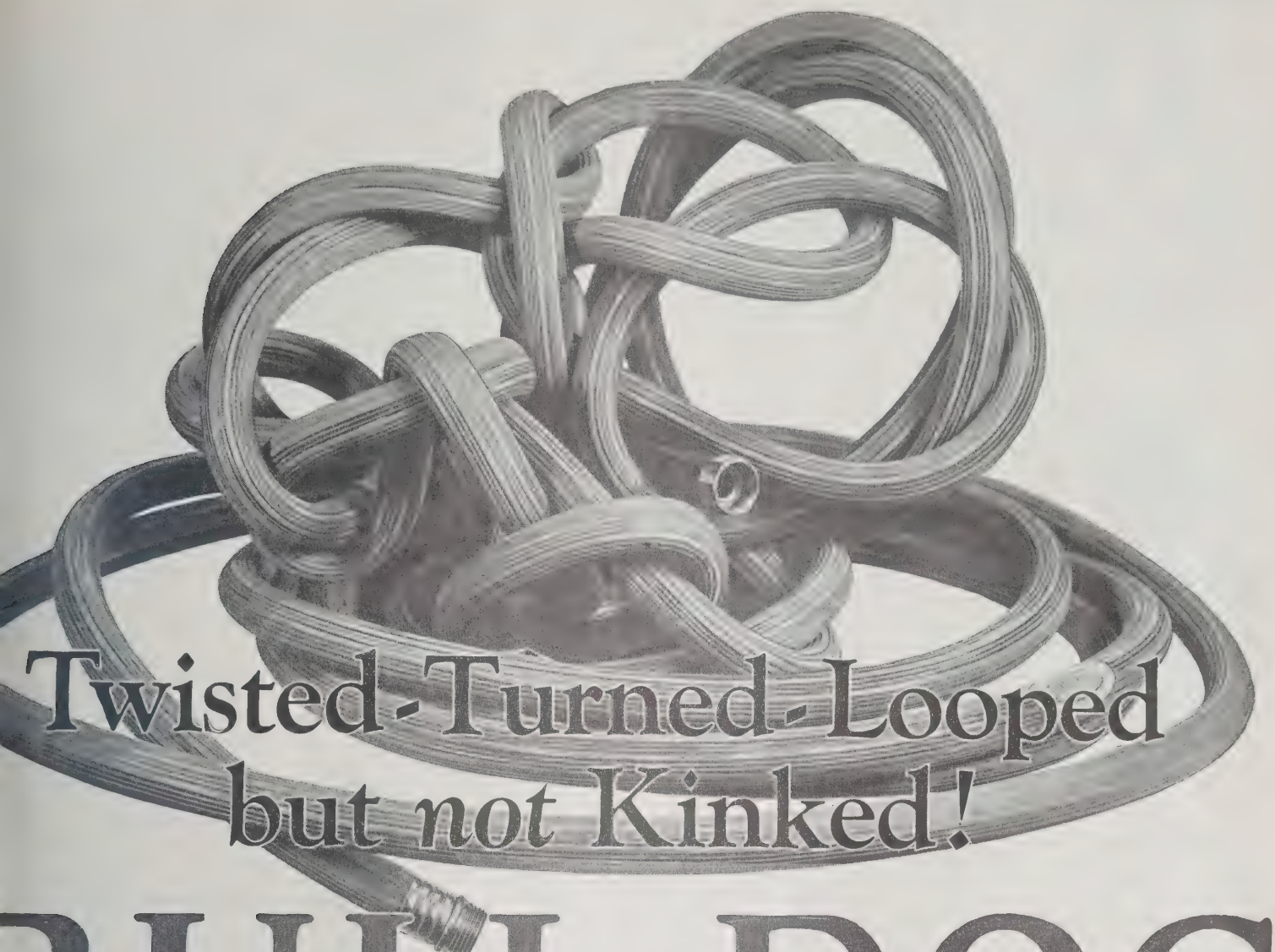
A Prize Group for - - - - $3.00
that will draw favorable comment in any garden.

Paul Michael (Decorative.) Old gold, full and deep.
Jean Chazot (Cactus.) Profuse bloomer, golden bronze, tinted nasturtium red.
Insulinde (Decorative.) Exceptionally large, curled and twisted petals, deep gold-bronze.
Blue Bird (Peony Flowered.) Mauve or lilac, unusually large.
Pride of California (Decorative. Crimson red dark, full center.
Rotarian (Decorative.) Violet-maroon large size, rich and soft.

Order Special Garden No. 10 today. There are hundreds of other Dahlias awaiting your choice in the "Kentucky Bred" Garden Book. Also Peonies, Iris, Perennials, Trees and Shrubs. A complete nursery service. Write for your copy today.

Jacob Schulz Co., Inc. Box 646 Dept. A, Louisville Kentucky

The GARDEN AND HOME BUILDER. June, 1928. Vol. XLVII No. 4. Published monthly by Doubleday, Doran & Company, Inc., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.



Twisted-Turned-Looped but *not* Kinked!

BULL DOG CORD

The *new* Garden Hose that is really *flexible*

FLEXIBILITY adds length of life to a garden hose because a hose seldom wears out through its entire length; it breaks at the points where it has been kinked. Bull Dog Cord Hose does not kink, so that wear comes evenly at every point.

The chief merit of Bull Dog Cord, however, is not its long life, but those manageable friendly qualities which make it so easy to handle. Ordinary garden hose is stubborn; Bull Dog Cord obligingly follows twists and turns, providing an open waterway from your silcock to the most distant point of lawn, garden or garage.

The flexibility of Bull Dog Cord is due to entirely new construction recently perfected in our factory. Bull Dog Cord construction is not found in any other kind of hose.

Ask your dealer to show you Bull Dog Cord. You will see at once the difference between it and other types of hose.

Send 10c, stamps, for booklet "Making the Garden Grow." A professional handbook for the amateur gardener.

BOSTON WOVEN HOSE & RUBBER CO.
CAMBRIDGE, MASS.

DON'T *cover* the worn spots

..make them look like new!

Here is an astonishing machine that scrapes, waxes and polishes your floor at a fraction of the usual cost

AN AMAZING new machine which plugs into an electric light socket like a vacuum cleaner, and requires no more skill to operate, enables you to do the job yourself.

It takes off completely the old varnish or shellac . . . sandpapers the floor to velvet smoothness . . . vigorously rubs in coats of wax . . . then polishes the wax to a lovely lustre.

The change in your floors astonishes you.

They look like new.

Not only that—but they stay that way, for the machine takes care of them forever after.

A few minutes occasional polishing, an annual or semi-annual rewaxing (operations absurdly easy), and your floors become the constant envy and admiration of your friends.

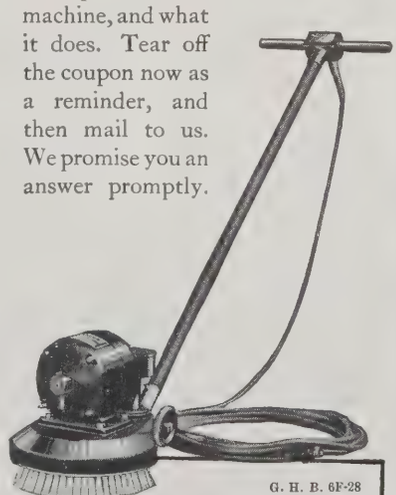
In addition, the Ponsell Floor Machine takes care of your other floors.

It gives linoleum a lustre surpassing anything you have ever known . . . a surface so immaculately smooth that dust and dirt have a hard time sticking to it.

The machine scrubs tile, cement, or any other kind of floors as they never could be scrubbed by hand, and without the least splashing.

We have branch offices in 24 cities ready to serve you. Upon request, we offer a *free* demonstration in your own home. Or if you are too far from our nearest branch, a 10-day *free* trial.

But first write for a complete description of this marvelous little machine, and what it does. Tear off the coupon now as a reminder, and then mail to us. We promise you an answer promptly.



G. H. B. 6F-28

Ponsell Floor Machine Co.
220-230 West 19th St., Dept. G. H. B. 6F
New York City.

Please mail me complete information and prices regarding your Electric Floor Machine. This does not obligate me in any way whatever.

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City.....State.....

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Swanfeldt Awnings

A much more artistic design . . . entirely different. Softer shades and more harmonious. Considered by decorators a most appropriate and modish decoration for all types of architecture. A variety of color patterns to choose from. Exclusive for better homes.

ILLUSTRATED BOOKLET

SWANFELDT AWNINGS are fully described in our Illustrated Booklet for 1928—FREE from your local distributor, or send to ANDREW SWANFELDT, 224 South Main St., Los Angeles, Calif. Dept. R

This Book Ought To Be Tied On Every Heating System

No matter how much you pay for it, a heating system is just a system after all.

How to run it right, how to set right what may be wrong with it are the important things you've got to know to have heat comfort and fuel thrift.

"Letters To and Fro" is the key you need,—a 34 page book of suggestions on how to get fuel thrift and heat comfort,—both of them.

The book is free. Just send your address.

Burnham Boiler Corporation

IRVINGTON, N. Y.

Representatives in all principal cities of the United States and Canada

Can Your House be kept Warm at Reasonable Cost?

Improved Asbestocel is an insulating covering for heater pipes. Dead air cells, enclosed in asbestos by a patented construction, reduce fuel costs

YOU naturally must consider the location, the general appearance and many other points before you decide to buy a house.

Among those of first importance—yet often overlooked—is this question—can the house be kept warm at a reasonable cost?

The boiler may be of the newest design. The steam or hot water pipes may be properly placed. Yet you cannot heat the house without wasting fuel, unless the pipes are insulated with Johns-Manville Improved Asbestocel from boiler to radiator.

When you build your house you will, of course, see that the heater pipes are insulated. But when you buy a house the Improved Asbestocel may have been left out. That will mean many dollars loss, through fuel wasted, many hours of discomfort due to improperly heated rooms.

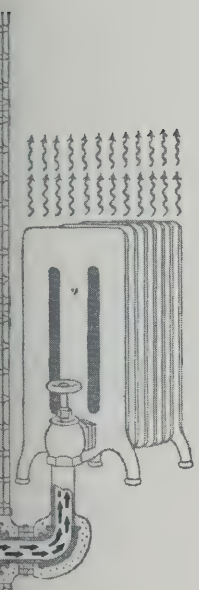
A pipe alone is not really a passageway for heat. The metal radiates the heat into the cellar, the walls or other useless places. Without insulated pipes you may sometimes keep a house warm, but you will pay for it and pay a stiff price in coal that is as much thrown away as if you tossed it into the ash pile direct from the bin.

With Improved Asbestocel applied the pipes become a confined highway for heat. Held in by asbestos fibres and air cells the heat flows without waste to the radiators—it is just the same whether you use hot water or steam. Asbestocel means more heat from less fuel. Something white wrapped around a pipe does not necessarily mean Improved Asbestocel. Johns-Manville, pioneer developer of asbestos, makes this insulation. It is scientifically designed. It is made of real asbestos. It insures the maximum of heat saving. Insist upon Improved Asbestocel.

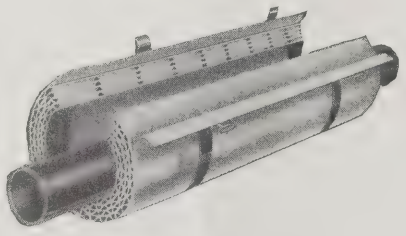
The Red Band Identifies It

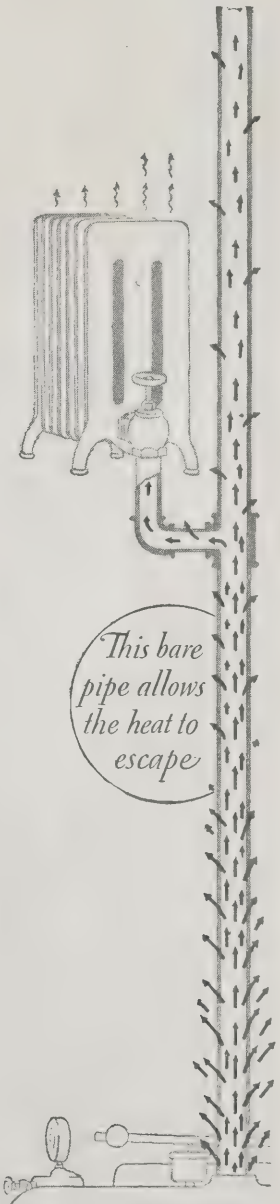
Before insulation is applied, look for the red band in the inner surface of the end of each section. That shows it is Asbestocel. No other product has the same arrangement of air cells separated by Asbestos.

A heat pipe without Improved Asbestocel is like a porous water pipe. It is one continuous leak. If buying or renting, be sure also that the boiler itself has a proper application of asbestos cement.

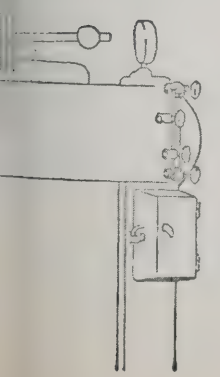


Asbestocel keeps the heat in this pipe





This bare pipe allows the heat to escape



Johns-Manville

Improved Asbestocel

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OF ENDURING ASBESTOS

Roofs that never fail . . . From Asbestos rock Johns-Manville fashions sturdy shingles, colorful, everlasting and fireproof. These shingles are the logical roofing for every home. As a new roof they make the first roofing cost the only cost. For repairing you re-roof for the last time if you use Johns-Manville Asbestos Shingles. The colors of these shingles never fade; rain, sun and fire will not harm them. They give a cottage greater charm, or add to the distinction of a large house.

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Canadian Johns-Manville Co., Ltd.
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Send me your free booklet, "More Heat from Less Fuel."

Name_____

Address_____

A-18-6

These Bulbs are Hard to Say But Easy to Have

FOR instance, there's Erythronium, Brodiaea, Eremurus, Camassias. They are a mouthful. But you forget all that when you see the rare loveliness of their blooms. If you should ask us, we would say that any bulb planting that left these out, was regrettably lop sided.

This courageous wild Crocus comes when the snow still lingers. Be sure some are included in your order. Its name is Crocus Versicolor.

BESIDES which, take the so-called c stand-bys like the Breeder Tulips, t lofty Darwins, the Cottage Tulips, not mention the ever likable Narcissi. Ther a great difference in all these. A differer of variety which is unbelievable.

Those we offer, are not at all the called run of the market. They are cho select sorts as well as the old favorit Most of these bulbs, however, are i ported to your order only, which m be done early. (Now).

Frankly, it's doubtful if soon again, ever, tulips will be so reasonable in pri The truth of the matter is they are lov even than before the war. So don't m this opportunity.

Send for our special import bulb ca log. Avail yourself of every advantage its helpful hints.

Wayside Gardens

E. H. Schultz, *Pres.* — *Mentor, Ohio* — J. J. Grullemans, *Sec'y-Treas.*

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Order Now~ before the Leaves turn!

ORDER NOW

and save on Bulbs at these Special Import Prices—for Fall Planting

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Extraordinary Offer

100 DARWIN TULIPS $2.50

Choicest first-size bulbs sure to bloom. Schling's Special Mixture made from ten of the finest named varieties—NOT the ordinary fieldgrown mixture usually sold.

A $6.00 value for only $2.50

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To Glorify your June Garden —Lovely with Delphiniums

We offer here a limited quantity of extremely large, picked Bulbs to those who wish unusual results. 10 to 15 magnificent blooms on stalks 4 to 5 feet tall may be expected. Delay may mean disappointment—Order NOW.

These specially picked BULBS

75c. each. $7.50 a Dozen

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Send for our special import Bulb List,—many other attractive offers at substantial savings.

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SOW NOW

These delightful and exclusive Schling Novelties for your Hardy Garden.

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Leucanthemum Maxima, Dwarf Avalanche—a delightful new dwarf white Marguerite for cutting; of bushy growth, does not require staking	$ .75
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Hollyhock Delphinium, Wrexham Hybrids—conspicuous for its strong broad, spiral spikes of great length, hollyhock like. A revelation to delphinium lovers	2.00
New Iceland Poppy, Coonara Pink—a charming warm rose-pink flushed with salmon of largest size	.75
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Primula, Floriundae—a mighty primrose from Asia with sixty to eighty fragrant, broad yellow flowers on 3 to 4 ft. stems	1.00
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Allwoodii, Alpinus—a dainty double carnation for the rock garden; only six inches high; blooms profusely....	1.00
Wallflower Siberian—a delightful orange-yellow, sweet scented Wallflower. Truly a gem for the rock garden and borders. Hardy everywhere	.50
The Entire Collection ($8.00 value)	**$6.00**

Schlings Seeds

MAX SCHLING SEEDSMEN, Inc.
Madison Avenue at 58th Street, New York City

Courtesy of the Arnold Arboretum

CHINESE SAND PEA

(*Pyrus calleryana*)

A medium sized tree pyramidal habit, cover with a blanket of wh flowers in early spring. P ticularly charming in f when its magnificent color foliage varies from yellow orange, scarlet-red or cri son. Plant this spring enjoy this color display autumn. Strong field-grow plants 10 to 12 ft., $5.00 each; 8 to 10 ft., $4.00 each; 6 to 8 $3.00 each.

This and many other interesting *new* plants are listed and descrit in our profusely illustrated catalog LANDSCAPES AND GA DENS for 1928. Write for your copy now.

WYMAN'S Framingham Nurseries

FRAMINGHAM—MASSACHUSETTS

BUY NOW
and SAVE 25%
Until July 15th—not later

FOLLOWING our practice of the past few years we are again making a special offer of **Darwin, Breeder** and **Cottage Tulips,** suggesting a color scheme for border planting. After many years of planning some of the finest gardens of these Tulips in America, we believe that they are seen to best advantage when planted in clumps of 25, 50 or 100 of a variety with a definite color scheme in mind.

Our Advance Bulb Catalog issued in May lists 155 varieties of these Tulips—The Aristocrat of the Tulip Family, but we recommend the following Special Border Collection and suggest that they be planted in the order given.

TEN FINE VARIETIES	Per 100	Per 1000
Reverend Ewbank—Beautiful soft lavender-violet	$4.00	$38.00
Princess Elizabeth—Beautiful clear deep pink	4.00	38.00
Bronze Queen—Soft golden bronze	5.00	48.00
Dream—Even tone of heliotrope	4.00	38.00
Edmee—Vivid shade of cherry-rose, lighter border	5.00	48.00
Cardinal Manning—Rosy violet, light bronze border	5.00	48.00
Moonlight—Handsome oval shape, soft canary-yellow	5.00	48.00
Philippe de Commines—Deep velvety maroon	4.00	38.00
Clara Butt—An even tone of salmon-rose	4.00	38.00
Apricot—Best described as ruddy apricot	7.00	68.00

25 each of a variety at 100 price; 250 each of a variety at 1000 price.

Special Collection Offer

10 Bulbs each of the above 10 varieties, 100 Bulbs	$5.00
25 Bulbs each of the above 10 varieties, 250 Bulbs	12.00
50 Bulbs each of the above 10 varieties, 500 Bulbs	23.00
100 Bulbs each of the above 10 varieties, 1000 Bulbs	45.00

***Terms:* 30 days after shipment or 5% discount if Cash accompanies order**

Our Advance Bulb Catalog—Issued May 1st
Write for a Copy

Stumpp & Walter Co

One of the Largest Importers of Dutch, French and Japanese Bulbs for Discriminating Flower Lovers in the United States.

30-32 Barclay Street, New York

Branch Stores in
Newark, N. J., White Plains, N.Y., Baltimore, Md.

OBBINK & ATKINS

Ask for Catalog

World's Choicest Nursery & Greenhouse Products Grown In America

Visit Nursery

Hardy Perennial Plants

e grow hundreds of thousands of Hardy Plants in nearly housand varieties, for old-fashioned gardens, rock gar-ns, woodland plantings, ground-covers, banks, dry soils d moist places. A copy of our new catalog will be sent those who intend to plant perennials.

rgreens and Conifers. Nearly 100 cres of Junipers, Yews, Pines, pruce, Arborvitae, and other vergreens for plantings of any iagnitude.

id-leaved Evergreens. Rhodo-endrons, Kalmias, Azaleas, 'otoneasters, Hollies, Pieris, ropagated and grown under our irection.

grown Vines. Ampelopsis, Big-onia, Honeysuckle, Aristolochia, uonymus, Climbing Hydran-ea, Ivies, Silver Lace Vine, 'ysteria, and others are de-cribed and priced in our special older.

Potted Roses. Many thousands of Hybrid Teas, Teas, and Climbers ready for immediate shipping. Ask for special list.

Hardy Perennial Plants. New and old varieties for old-fashioned gardens. Many are in pots for summer plantings.

Our Specialties include Chinese Magnolias, Evergreen Azaleas, Lilacs, Japanese Maples, Weeping Flowering Cherries, Red Dogwood, Cotoneasters, rare flowering shrubs, and grafted Blue Spruce, Koster and Moerheimi varieties.

In your request for Catalogue, please state what you intend to plant, as we issue several catalogs

OBBINK & ATKINS, Rutherford, N. J.

Please mention this magazine

Dreer's
GARDEN ROSES

Extra strong two-year-old plants that will give a full crop of flowers this year

We offer over three hundred varieties of Roses including the latest novelties, many of which are exclusive with us. We can also supply the best of the well-tried sorts which, by sheer merit, have won their place in all gardens where Roses are grown. We especially recommend the Hybrid-Tea varieties which are not only hardy but everblooming. The plants we supply are in pots, in full growth, many with buds, and can be shipped safely by Express.

Dreer's Twelve Hybrid Tea Roses for $12

A wonderful collection of modern *Hybrid-Tea Roses* in every shade of color including novelties of this year's introduction, of our selection, *12 extra strong plants for* ***$12.00, delivery prepaid.***

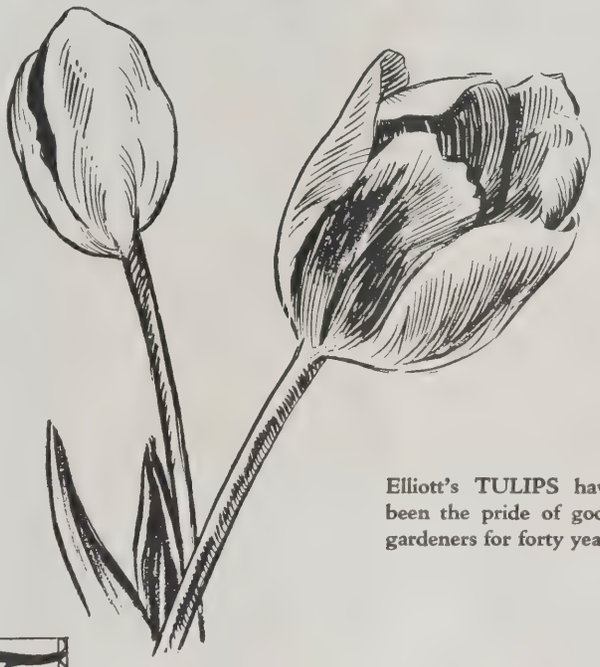
Special Rose Catalog So great has become the interest in Roses that we have issued this special book covering every phase of the subject. It should enable anyone to grow Roses to perfection. Free, of course, whether you order Roses or not.

The Dreer Garden Book—FREE!

All of the above are fully described in Dreer's Garden Book, and whatever your ambitions—fine flowers from seeds, greater Roses, surpassing Dahlias, showy Gladiolus, or faithful old-fashioned hardy flowers—the Dreer Garden Book can help you make every garden dream come true. Please ask for it, and mention this publication.

HENRY A. DREER 1306 Spring Garden Street Philadelphia, Penna.

Plant Only the Finest TULIPS



Elliott's TULIPS have been the pride of good gardeners for forty years

THE SAME soil and the same reasonable care that will give you ordinary flowers from ordinary bulbs, will give you superb and gorgeous flowers from Elliott bulbs. Why devote time and space to any but the finest?

Giant May flowering Darwin and Breeder varieties, the choicest grown in Holland, and every individual bulb chosen for size and perfect development. This is what we assure to our customers who place their orders early—before our annual lists are made up and our selections made.

Order Before July 1st

Ten truly regal Tulips, two feet tall, blossoms often 3½ inches across. Sure to grow, true to type, lovely beyond description.

Clara Butt, Delicate Salmon-Pink
Euterpe, Mauve-Lavender. Extra fine
Farncombe Sanders, Fiery scarlet
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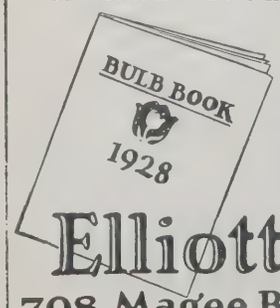

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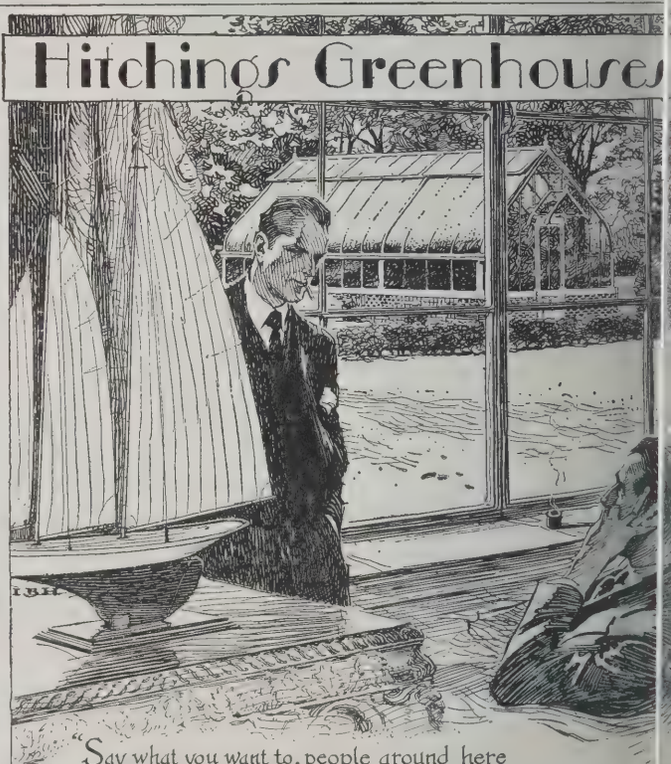

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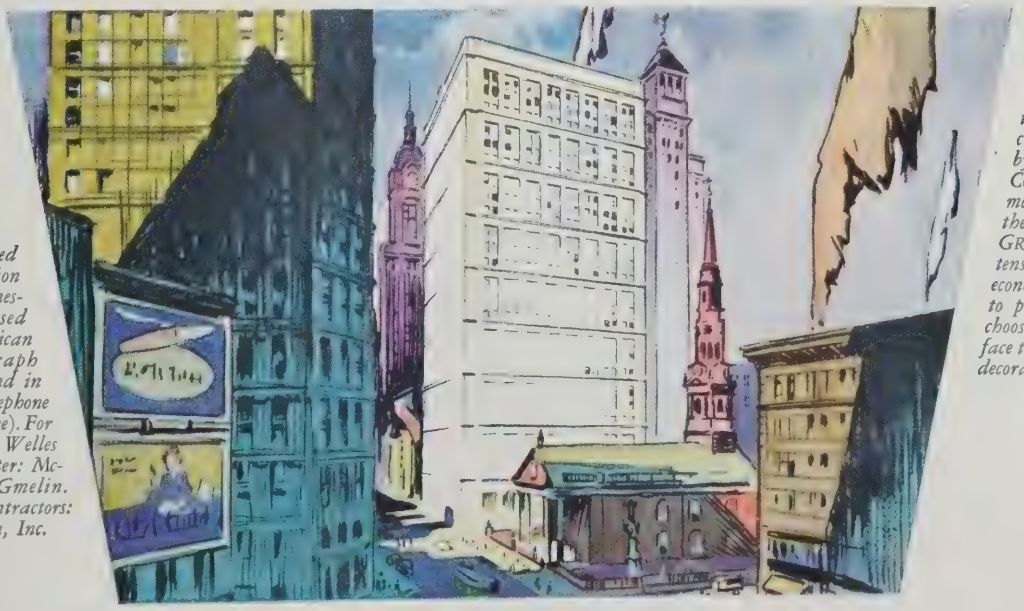

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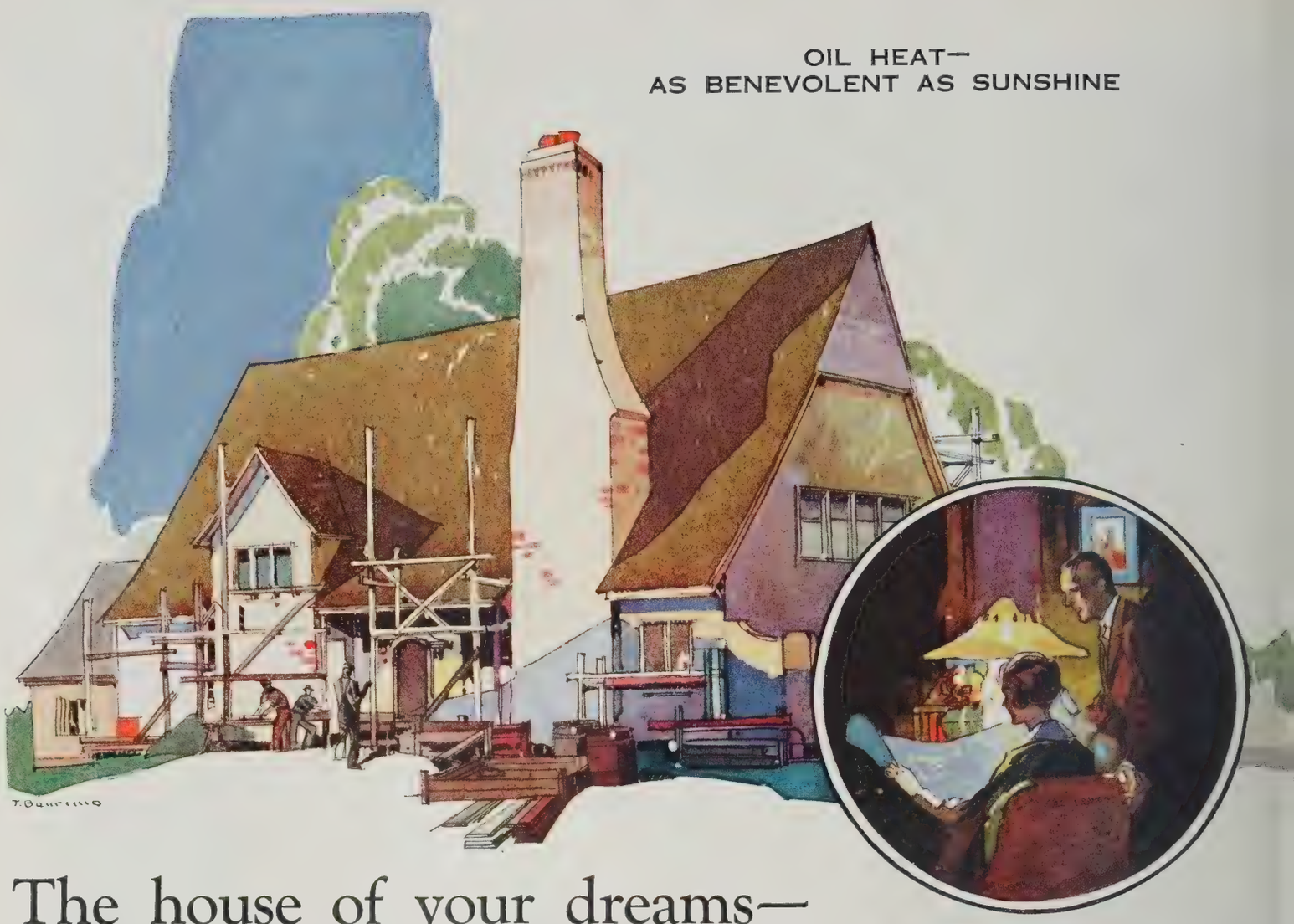

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GARDEN & HOME BUILDER

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VOLUME XLVII NUMBER IV

Cover design after an original by Ashton Wilson

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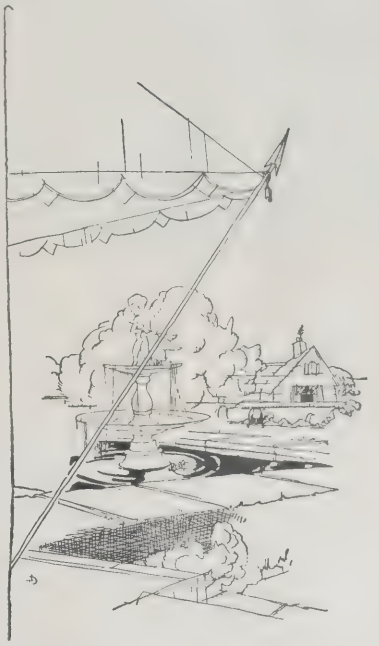
LY is the month when the thoughts of most of us turn to ation plans and activities; and his July Garden & Home Builder ers are being given a complete ussion of Summertime Cottages Cabins—a very timely subject. Cabin a Man Can Build for self' by Harry McGuire, gives account of the construction of cabin from the selection of the right through to the finish, ac-panied by helpful sketches and is. Additional suggestions may be d in the photographs, plans and criptions of the Theodore Swann ge near Birmingham, Alabama. or is the interior of the summer camp neglected. 'Furnishing and ipping the Summer Camp' by Grace Daggett, Decorator, is full of sorts of new decorative schemes and labor and time saving devices for the vacationing home-maker. Another important consideration is taken up by Dudley Clulow in 'Hardware for the Cottage and Cabin'—how to buy it, and what is appropriate. Of general interest to readers everywhere is Ellen D. Wangner's 'Color in Clocks'—another indication of the new tendency in decoration.



For our garden minded cottage builder we offer various suggestions by pictures and text for the introduction of color and interest on the little place. Also a subject of special interest at this time of year is Hammond Sadler's 'Decorative Use of Tile in the Garden'; and another article in the series of little personal gardens for all the land is contributed by Lilian C. Alderson—'The Little Informal Garden.'

FORECAST for JULY

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

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Come Into the Garden

VE ARE in the age of color. At least that's what everybody tells us and uld seem to be almost true. Color is ing used in places from which heretoe it was the proper thing to keep it vays banished; inside and outside your me, and in every department of it, lor runs rife. What started it all? hy was it started? Why do we think is all right to have brilliancy and iety now when heretofore everything s a dull monotony?

Color has always aroused a great deal interest, not to say discussion, and even ong opinions. Long before we heard of ything about the multi-colored interior corations in paint or fabric or whatnot were all talking about color schemes the garden. It was indeed the fashionle phase of interest. Every garden club ogram could be depended upon to have is subject in one form or another regurly introduced; and it was always a od subject because every member had individual point of view, and so discssion was general.

Miss Jekyll it was who coined the tell- phrase 'malignant magenta,' I believe. was a pleasing alliteration that did ore to damn the proper use of a powerful d effective and beautiful color than any rinsic demerits of the color in certain ades ever justified. I like the revision naligned magenta,' because, in its place th the proper association of other colors, agenta is sufficiently soul-satisfying and rious. I mean the true magenta. So any other washy tints and tones of deaded blue rose have been grouped tother under the name magenta that the herent beauty of the true tint has been rgely lost to mind.

I wonder whether the modern color nsitiveness is not, as a matter of fact, an tual outgrowth or fruition of garden nsciousness. Certainly we all talked out garden color long before we thought very intensively about interior color. olor schemes for the garden have long been matters to conjure with and intrigue popular attention. It was Mr. Duffy writing in these pages a few years ago who facetiously referred to color schemes as 'the measles of gardening, because,' he said, 'everybody has them.' Be that as it may, the growth of color sensitiveness, color appreciation, or what you will, began to find expression in the garden with the garden amateur long before it found its way into the house itself. I have a sort of feeling that we may even owe to the garden the present-day awakening of color consciousness in all our surroundings. At all events, it has been a growth that arose after the garden interest began to spring vigorously and has seemingly burgeoned into volume in exact ratio to increased appreciation of the things in the garden.

I am one of those people who do not find any flower or plant ugly. A flower may be relatively out of place and therefore ugly in association, but I cannot accept the idea that any flower is intrinsically repulsive, which is what it must be if ugliness be one of its attributes. It is all in the use, after all. Anyone can recall triumphant use of the so-called ugly plant or ugly color in the hands of the proper artist. Of course, varieties differ in their attractiveness—their relative attractiveness, that is—because in other associations the scale may be absolutely reversed. Purity of color and even garish intensity of concentrated brilliancy is just as pleasing if the whole scheme is pitched in the same key as are stretches of the weaker tints and shades which for lack of a better description are sometimes called pastel. It is much easier to make a passable combination of weak tones than it is to use strong ones. For this very reason the weaker tones are perhaps justifiably the more popular because they are safer. Yet when we think of the old Zinnia and compare it with the modern strains nearly all of us are thankful for the progress of events. Yet the old-time Zinnia must have had its merits or it wouldn't have been sustained in cultivation—it is one of the old things we all look for always in a colorful garden.

I can quite understand that there are degrees of appreciation and liking in the whole world of flowers. I like Daffodils, and Tulips, and Roses, and Irises, and Dahlias particularly well. I might easily add half a dozen other things that afford me great pleasure in looking at their great range of tones and variation of tint; but if I am asked 'what flower do you really dislike' I am at a loss for an answer. However, in an English newspaper recently an animated discussion was sustained as to which of the popular flowers could be most easily discarded. A list of six unwanted flowers that won out, or perhaps we should say, lost out, in the voting are: Calceolaria, Dahlia, Sunflower, Geranium, Marigold, Aster, in that order, and the next in order of unpopularity came: Nasturtium, Petunia, Begonia, Hollyhock, and Goldenrod. I don't suppose that any two people could agree on an elimination list but it would be interesting at all events if we could find out what the American state of mind was as compared with the English. Could we, for instance, really get along by regarding the Dahlia, the Aster, and the Marigold as unwanted flowers? I would be hard put to it to make a list of six rejections; but I feel that I could get along without the Petunia—although when I come to think of it I wouldn't know exactly why, unless it is the habit of the plant as a whole and its abominable persistence in volunteering all over the garden the next season. Come to think of it, however, there are really good Petunias such as the variety Rosy Morn desirable for pure color effects. No, on second thought, I think I would prefer to reject the flowering Tobacco.

Leonard Barron

Photograph J. Horace McFarland Co

A SUCCESSFUL GARDEN IN SEMI-SHADE

Sedums, Japanese Windflowers, Hardy Asters and other perennials line this walk, very alluring in its informality. Successful gardening is so largely a matter of common sense—pick plants whose natural habitat and conditions of growth are akin to those your garden offers; don't attempt to force sun-loving plants into the shade or semi-shade plants into sun-scorched exposures and expect them to respond wholeheartedly—like people, you get the best out of them by studying their idiosyncrasies

It is in half shade after all that most of our favorite flowers look their very best, but the sunlight must reach at some time of the plant's growth

Of Gardens That Grow in the Shade

Bringing beauty to bare spots on little lots or large—plants that have really been tried and always answer 'present'

HELEN MORGENTHAU FOX

HADED gardens abound. Wherever there is a time-scarred Apple tree, ncestral Elm or a portly Maple stand- on a small piece of property, it will e a good part of the place during e time of the day. City gardens on lined streets are mostly in the shade so are gardens in an ell or U of ouse. In gardens where there is ty of room to spread out but where s have been planted near the house, ers are grown under their shade to en the stiff lines of the foundation and e the transition between house and nds.

Many plants require light upon their es in order to live and if you study the ngement of leaves on a tree you will that each is so placed as to receive its e of light. When the light shines upon tiny grain-like bodies in the leaves, an green substance is formed, called rophyll, whose function it is to draw certain chemicals from the water and on dioxide and recombine them into od assimilable to the plant. Chloro- ll almost never forms in the dark. eriments have been recently con- ed to discover the effects on plants of ort as against a long day artificially rolled. They have found that spring- ering plants generally require a longer fall-flowering a shorter day. I do not w of any experiments to find out how light or partial shade affects the plants, but that will surely come, and in the meanwhile we can observe for ourselves. All we 'dirt' gardeners need to know is that each plant requires a certain amount and kind of light in order for it to develop normally. Therefore, it is wisest to select for shaded positions plants whose mechanism is adapted to the half light of partial shade. Almost no plants live in deep shade except some Ferns and Mosses.

Some plants live in the dark woods but complete their whole life cycle in the early spring before the leaves are out, when there is plenty of sunshine glancing through the bare trees onto the forest floor. This enables them to avail themselves of the rich store of rotted leaf-mold under the forest trees and at the same time escape the danger of dark shade. Amongst these early birds of the plant world are the Hepaticas (did you ever notice that some of these are fragrant?), Bloodroot, Wind Anemone, Spring-beauty, and so on.

In selecting plants for partial shade we must bear in mind that there are damp and dry shaded gardens, and on my plant lists I have noted 'damp' and 'dry.' Many shrubs and perennials will *grow* in either shade or sun, damp or dry, but often they *thrive* only where conditions are exactly like those of their native homes.

In nature there are many situations resembling the half-shaded border and there is a long list of available beauties to choose from. We can have as many as we like and begin the season with Scillas, Crocus, Grape Hyacinths and Narcissus which bloom later in the shade than in the sun and so prolong their stay. Primulas come early, too, and after the flowers are gone the tidy tufts of their leaves make a neat edging. Flowers are always more attractive to me when their only charm is not in their fleeting bloom but is accompanied by the more enduring qualities of a fine foliage and colorful fruit.

The Irises are on the whole a sun loving family with a few shy members lingering in the shade. These are Iris cristata, a dwarf native four to six inches high; Iris versicolor with pale lilac flowers late in May or June, also a native, not showy but charming in masses. Iris pseudacorus, a European species naturalized here, rapidly forms clumps of tall yellow-flowered stalks. It grows so rankly that I have moved it from the border down to along the banks of a swiftly flowing stream where I was surprised to see that in one season it spread itself across to the other side, and I wonder how it managed it.

The old-fashioned Bleeding-heart is a dependable friend who only stays with us while dressed in its best and after a long visit disappears entirely until the next spring when it suddenly hangs out its two-toned pink flags again. It goes well with blue Mertensia virginica (which is difficult to move), Forget-me-nots, and its stronger growing cousin, Anchusa

The spring bloomers thrive in places that are open to sunlight in the early season, and so complete their growth before the dense shade of overhead foliage cuts off the sunlight. (Polyanthus Primroses in many colors

myosotidiflora, and with fluffy swaying blue-gray flowers of Phlox divaricata canadensis. All these blue flowers are good with the yellows of spring, such as Trollius europaeus, a glorified globular Buttercup preferring the shade. The flat, fat Pansies always remind me of respectable middle-aged Victorian ladies rustling in their plum or purple velvet dresses. In the shade they bloom all summer and on to very late in the fall so that I have picked them after the black frosts in December. A little later come the pastel-colored Aquilegias, gently bred ladies equally amiable in sun or shade whose delicate foliage remaining after the flowers is like that of the Meadowrues and flutters softly around the feet of the Lilies and other tall late-comers.

I ignorantly planted Sweet Woodruff (Asperula odorata) on my sunny terrace only to have it disappear, but have since learned that it flourishes in the shade. It is 6–8 in. high and has small white bell-shaped flowers and fragrant leaves smelling of new-mown hay. The Germans call it Waldmeister (Master-of-the-woods) and make wine from its leaves which they drink on their May outing in the woods.

In June this border is fragrant with the spicy-scented Beebalm whose leaves, brought into the house, hold their fragrance a long time. Anchusa italica brings in the blue, Hemerocallis the yellow and Digitalis white and lavender. The Lilies join the company, too, and keep on coming until September: L. hansoni with yellow flowers and stems 4–6 ft. tall, with fine foliage; L. martagon album with waxy white turk's-cap flowers; L. henryi with orange flowers on very tall stems; L. pardalinum with spotted orange flowers; and L. speciosum in pink and white, all prefer the half shade. The native canadense and philadelphicum grow in both sun and shade. The last does best in the rock garden. The rock garden is really a sunny wild garden. I have not given any lists for the shaded rock garden as I never had one and prefer to keep to prose based on fact rather than to indulge in poetic flights of fancy. July brings the garden Phloxes (P. paniculata) in the whole scale of rose, from white through to est red and purple. In the border the a bit pushing and conspicuous; bu themselves on a half shady hill against a strong green background wit the colors intermingled and lots of w scattered through them, they are glor

The Gaillardias which do well for n the shade although they are said t quire the sun, bloom at the same t Epilobium, called Fireweed or C Willow-herb is a great favorite in Fra Here it springs up where there has be forest fire and quickly covers the b ground with its spires of lavender flow

Begonias have long been the stand- shaded beds and borders. The large ered single or double tuberous rooted are very handsome if the colors are separated. Fuchsias make fine pot p in the North where they are not ha In Tours, in France, I have seen hedg them. They bloom all summer long brighten up the dark corners of summerhouse, with (*continued on page*

Plants for Shaded Gardens

For the Flower Border

The items in each section are listed alphabetically by their technical names

Monkshood (Aconitum)—A. fischeri, dwarf 18", summer; A. napellus, summer; A. wilsoni, 6' high, large blue flowers, summer.

Windflower (Anemone)—A. hupehensis 18"–24", Aug. to late autumn; A. japonica, 2'–3', Aug. to late fall.

Columbine (Aquilegia)—many varieties—A. canadensis, columbine, red and yellow, sun or shade; A. skinneri, yellow with long red spurs; A. caerulea, long-spurred hybrids.

Sweet-woodruff (Asperula odorata)—fragrant 6"–8", white, May.

Bugloss (Anchusa)—A. myosotidiflora, early low, 10"–14", blue; A. italica, taller and later, 3'–5', blue; var dropmore, tall and later, blue.

Michaelmas Daisy (Aster)—A. cordifolium, 1½'–2', pale blue, late summer; A. corymbosus, 18"–30", white, late Aug.; A. undalatus, 18"–30", blue, late autumn.

Begonia—tuberous rooted, single, double and frilled in red, yellow, white and pink; B. semperflorens, pink with yellow stamens. Begonias have to be replanted every summer with me, bloom all summer.

Foxglove (Digitalis)—biennial, June; D. purpurea and white kinds; D. ambigua glaucifolia (yellow); good for back of border.

Willow-herb (Epilobium)—3'–5', lavender flower spikes, July; E. angustifolium; E. hirsutum, rank growing, 2'–6'.

Godetia—annual, low, in red and purples.

Fuchsia—in pots in North, not hardy, blooms all summer.

St. Johnswort (Hypericum moserianum)—bright golden yellow bloom all summer, 2'.

Funkia (Hosta)— H. lanceolata, lilac, 2'–18'; H. subcordata grandiflora, white, Aug. to Sept., very fragrant and with ornamental leaves, good to serve as an accent.

Daylily (Hemerocallis)—H. fulva, tawny, June, July, has become naturalized; H. flava, lemon yellow, June; H. thunbergi, July, Aug., lemon yellow. They increase so rapidly that they must be thinned and divided very often.

Iris cristata—4"–6", late May, June.

Blanketflower (Gaillardia)—the perennial, though listed as a sun-loving flower it does very well in the shade for me.

Lily (Lilium)—L. canadense, damp or dry but well drained, 3'–4', white, late June, July; L. pardalinum, 4'–6', orange, July; L. speciosum, 3'–4', pink or white, Aug.; L. henryi, 8', orange, Aug.; L. martagon album, 3'–6', white, June; L. hansoni, 3'–6', yellow, June.

Mertensia virginica—1'–1½', grows on rocks, too, deep blue, early spring; M. sibirica, later than above, light blue.

Forget-me-not (Myosotis palustris semperflorens)—12'–18', spring.

Bergamot (Monarda)—2'–3', red and lavender kinds, July; M. didyma, Cambridge Scarlet, brilliant crimson scarlet, July; M. fistulosa, later than above and gray.

Tobacco (Nicotiana)—annual N. affinis, white night-blooming fragrant dwarf; N. sylvestris white night-blooming fragrant tall; pink kinds, too.

Plumbago larpentae—blue low, late blooming.

English Cowslip (Primula veris)—low yellow, early spring; P. acaulis (English Primrose), canary yellow, very fragrant, low, early spring; P. polyantha, brown, red and yellow kinds, low, early spring, should be divided right after blooming.

Solomonseal (Polygonatum majus)—3', creamy white flowers, very lovely leaves and stem, early spring.

Phlox paniculata—summer, all colors, fragrant, 2'–4'; P. maculata, biennial, June; P. divaricata canadensis, blue 18", a lovely spring plant.

Rose, Padre—I read that this Rose does well in half shade. It is a brilliant red and somewhat resembles Gruss an Teplitz in appearance of the plant.

Wild liveforever (Sedum telephioides)—Professor Hamblin gives the following good for damp and shady places: S. ternatum, S. nevi, S. pulchellum.

Rue (Thalictrum)—T. polyganum, tall, principally planted for foliage, 3'–6', June, July; T. dioicum, flowers purple, early spring.

Globeflower (Trollius europaeus)—1'–2', May until Aug. buttercup-like yellow flowers.

Periwinkle (Vinca minor)—creeping stem, blue flowers, May. A fine ground cover for shady places where grass will not grow, under benches and trees.

Viola—small-flowered kind, like Johnny-jump-up; V. odorata (sweet English Violet); V. tricolor (Pansy).

In addition to the above, the spring flowering bulbs do well in shade, such as: Narcissus, Grape Hyacinth, Scilla, Crocus.

For the Wild Garden

Baneberry (Actaea alba)—1'–2', native, racemes of white flowers followed by white fruit; A. rubra, berries red, summer flowering, dry.

Wood Anemone (Anemone quinquefolia)—small, early spring, white, dry; A. thalictroides, Rue Anemone, small white, early spring, dry; A. sylvestris, fragrant, nodding, dry.

Jack-in-the-Pulpit (Arisaema triphyllum)—1'–1½', spring flowering, wet or dry.

Pipsissewa (Chimaphila maculata)—fragrant, 3"–½", waxy white, summer flowering, dry.

Springbeauty (Claytonia virginica)—3"–6" rose-colored flowers in early spring, damp.

Black Snakeroot (Cimicifuga racemosa)—4'–6', tall white spirelike flowers, said to have a disagreeable odor but is very handsome, summer, moist shade.

Lily-of-the-Valley (Convallaria majalis)—dry shade, plant by itself under trees or in a shaded corner of the house, May.

Bunchberry (Cornus canadensis)—4", white flower and red berries, moist woods, only in north, very low.

Dutchmen's-breeches (Dicentra cucullaria)—4"–8", early spring, dry. D. canadensis, 6"–12", spring, flowers smaller than above, dry.

American Cowslip (Dodecatheon)—not too dry a soil.

Troutlily (Erythronium revolutum)—comes in cream, soft pink, rose pink and white flowered kinds, from California, damp soil.

Galax aphylla—6"–8", shiny bronzy green leaves, from North Carolina mountains.

Closed Gentian (Gentiana andrewsi)—Aug., Sept. blue, rich moist woods.

Hepatica (Hepatica triloba)—native, low plant, to 4", delicate white, pink or lavender flowers, early spring, dry.

Iris versicolor,—20", blue, June; I. pseudacorus, 2½' tall, yellow, June.

Jewelweed (Impatiens)—I. pallida; I. fulva, both have pendulous orange or yellow flowers, the last is lighter, native 2½'–3' high, like dampness.

Lily (Lilium)—All given are natives, all on the orange and scarlet colorings, June, July flowering; L. philadelphicum, dry; L. canadense, damp or dry; L. pardalinum damp.

Cardinal-flower (Lobelia cardinalis)—native, 1½'–3', scarlet, damp; L. syphilitica, native, 18"–3', blue, dry land.

Partridge-berry (Mitchella repens)—scarlet berries on a tiny creeping plant.

Forget-me-not (Myosotis palustris semperflorens)—damp or dry.

Orchids—native, flower in early spring; O. cypripedium parviflorum, damp; O. cypripedium acaule, damp; O. cypripedium hirsutum, damp.

Showy Orchis (Orchis spectabilis)—native, low, beautiful, lavender-pink, rich woods.

White Woodsorrel (Oxalis acetosella)—white with pink veins, late June, July, damp.

Mayapple (Podophyllum peltatum)—native, 12"–18", yellow egg-shaped fruits 2" long, blooms in April and fruits in May, rich woods.

Solomonseal (Polygonatum commutatum)—3', creamy white flowers, May, dry, a beautiful plant whose leaves are decorative after the flowers are gone, a giant form of the one found wild in our woods.

Mountain-pink (Phlox ovata)—6", on shaded rocks, brilliant pink, June, July one of our fast disappearing wildings.

Bloodroot (Sanguinaria canadensis)—4", does well under shrubberies, white fairy-like flowers with blood-red sap, very early, native.

Oconee-bells (Shortia galacifolia)—4"–6", white or pink flowers which look like Pyrola, good for ground cover.

Saxifrage (Saxifraga cordifolia)—18" high, pink flowers, fleshy leaves, damp soil.

False Solomonseal (Smilacina racemosa)—native, 18", white terminal, flower panicle at end of graceful leafy stalk, later has red berries, flowers in May, dry, effective in drifts along a bank.

Goldenrod (Solidago)—S. caesia, native, dry; S. canadensis, dry. In Europe it is planted as a choice perennial, but until the urban advance upon our fields will exterminate it, it is too common a weed to be interesting in our gardens.

Virginia Spiderwort (Tradescantia virginiana)—native, 2'–2½', blue, blooms all summer, dry.

Tall meadowrue (Thalictrum polyganum)—native, 3'–6', moist or dry, foliage like a Maidenhair Fern, flowers inconspicuous, end of June, July.

Foamflower (Tiarella)—10", white flowers, May or June, moist.

Trillium—T. cernuum, native, 12"–15", pure white, moist; T. grandiflorum, native, white turning pink, moist, May, June.

American White Hellebore (Veratrum viride)—lily-like leaves, white flowers, very early, moist soil.

Periwinkle (Vinca minor)—blue, May, creeping, dry.

Violet (Viola)—white, purple, and yellow, native, moist soil, early blooming; V. canadensis, native, white with a yellow center.

(*continued on page 428*)

The friendship between flowers and books: a charming corner in a Colonial room, where the roses in vases reminiscent of the old Staffordshire pottery furnish much of the grace and color

The plain wa this living roo the perfect b ground for several fl arrangements mantel and t —Gladiol Polyanth Sweet-pe Stock, and A lea in glass pottery vas

The Friendliness of Flowers About the House

MARY DAY WINN

IN HIS book, 'Iole and Others,' published over twenty-five years ago, Robert W. Chambers satirized a certain type of aesthete of the day who had appeared as a protest against the stuffy over-elaboration and pretense of the Victorian era. The hero of this novel, whose watchword was 'simplicity,' summed up his philosophy in the following statement: 'A single flower in an empty room is beautiful to me.'

Perhaps. One's mind immediately plays with the picture. Would this solitary bloom be lying on the bare floor in the middle of the room? Or would it be propped up against the wall in the corner? Or would it be hung from the ceiling? In any position it would look ridiculous. Of course the truth is that flowers, like beautiful women, are made more beautiful by the proper setting. That setting may be one of carefully arranged simplicity for flowers that can stand it, such as a single rose in a slender glass vase; or it may be most elaborate, as is necessary, for instance, with delphinium, which is stiff and awkward when used alone, but enhances the beauty of almost any combination to which it is added.

Flowers have certain congenial companions, not only among their own kind, but among other accessories of the house. Their beauty is often far more strik in company with mirrors, windows, bo candles or goldfish than if unsupporte any of these friends.

Placing flowers in front of a mirror i old and well-known device; a varia of this that one sees more and mor putting them *on* mirrors. Some of newest designs in tables have mirror t on which a bowl of narcissus can se own beauty many times reflected. S of the modernistic designs in lamps center-of-the-table vases which have cently come over from Paris are made of mirrors arranged like pri Table flowers used with them are r

ective when placed in low bowls or ses.

Aside from the fact that flowers and nlight have a natural affinity, the auty of blooms is almost doubled if ey are placed in clear or colored glass ntainers so that the light can filter rough. The stems, seen through the ss, often make a pattern which should t be lost as part of the picture. A most ective arrangement of this kind is the e of one or more rectangular goldfish wls on a wide window sill. These may be nost filled with hedge cuttings, say of ırel or privet, to make a green back- ound, and the note of color added in e shape of a few marigolds, tulips, nias or chrysanthemums, according to e season.

One of the most beautiful winter flower rangements I have ever seen had for central theme a large green blown ss wine bottle, the kind that enthusi- ts of Americana love to collect and then ver know exactly what to do with ter they have collected them. This one d been turned into an aquarium. Since was only two-thirds full of water, there is a large surface exposed to the air, t protected from the prowling white rsian of the house. Around the bottle is grouped a ring of pots containing use ivy, which gave way, in the spring, sprays of forsythia and later to fruit ossoms. The sunlight through the green ass, the darting gold of the fishes, and e framework of the green d yellow plants gave an usually cheerful feeling.

arranging flowers in front a window, try to choose ose which will make an teresting silhouette ainst the glass, such as tter-sweet, fruit blossoms, mimosa.

Many people do not real- e the friendship between wers and books. Mel- wed, vari-colored volumes ake a perfect background r autumn flowers, or others rich, strong hue. The more licate flowers may some- nes seem a bit dwarfed d washed out in such a tting but chrysanthe- ums, dahlias, gladiolus, tterfly-bush, lemon lilies, arigolds and zinnias hold eir own, like a highlight color on old tapestry.

Glass, both clear and colored, holds rst place among flower containers. It ends with and enhances the beauty of y blossom as no other material can do, vealing the tracery of the stems under ater, following the flower's own grace and delicacy of line, and adding a rich note of color. In this day of intense enthusiasm for glass, when some of the ablest artists in the world—men like Lalique, and also the group of Swedish craftsmen—are devoting themselves almost wholly to its design, there is no limit to the charm and variety of containers that one can find in the shops. One of the most effective uses, however, of glass with flowers that we have ever seen was in combination with silver. A small silver vase filled with salmon-pink snapdragon and larkspur was placed in the center of a dining table on a blue glass plate. The blue of the plate was reflected in the silver, giving almost the effect of an enamel inlay with a silver sheen over it, and emphasizing the blue of the flowers above.

THE USE OF WHITE POTTERY

Charming white pottery may now be bought which combines vase and candleholders. Some are in the forms of low flat dishes, with flower frog in the center and candleholder on each side of the frog. Tall white tapers rising from these bowls in a misty cloud of baby's breath have an almost ghostlike beauty, enhanced by the graceful nude figure on the rim which is sometimes part of the design. Flat bowls, with some kind of flower holder in the center to keep the blooms upright, offer many more chances to experiment with flower forms than any other kind of container. This fact was discovered long ago by the Japanese, among whom flower arrangement is such a high and refined art that the country has more than five hundred different sects or schools devoted to the subject. Japanese maidens study it in regular classes and it is regarded as a necessary part of their education—something they must thoroughly understand.

The keynotes of Japanese arrangement are daintiness and simplicity, exquisite smallness and refinement, which seem to be characteristic of their national life—a small country, small people, small houses, dwarf trees, and one blossom in a vase. In building up their flower poems, they frequently use, instead of a frog, a one-inch thick slice of raw potato, into which flower stems may be stuck. Afterwards, the potato is covered with small pebbles, so that the blooms seem to be growing out of the earth. The strictest mathematical laws regulate the number of blooms that may be used in a vase and the relation of their height to each other.

In arranging flowers in a large flat bowl, it frequently improves the composition to put the frog, not in the center, but to one side. Some of the blooms are then arranged to bend down, almost level with the water, and two or three others are cut entirely from their stems and allowed to float on the surface. Do not be afraid to cut off the heads of flowers and arrange them in a flat dish when the picture demands it. Water-lilies, of course, can be used in no other way, but roses, dahlias, chrysanthemums and many other flowers are also lovely thus arranged.

Wall sconces of pottery and wrought iron, and tall wrought iron flower-pot holders are just beginning to reveal to us the grace of trailing vines, especially house ivy, indoors. Ivy brings a summer note to winter rooms when hanging from pots over an unused fireplace or a bookcase, or fastened to the banisters of a curving stair, or standing on a pedestal to fill a lifeless corner.

When all is said and done, the true secret of attractive flower arrangement lies in a study of the flowers themselves, their natural grace and way of growing. That is perhaps the key to the success and charm of the much imitated Japanese method—attractive because near nature. They refine and select, of course, as any artist in any undertaking is bound to do; but they never distort, or grumble, or go against the spirit of the blossoms they so sympathetically handle.

Glass holds first place among flower containers, revealing as it does the tracery of the stems under water and blending with the beauty of any blossom. On this window sill we have a combination of both clear and colored, holding a profusion of lovely spring flowers

Blazing the Color Trail at Home

Magic working lacquers that you can apply and have dry within the half hour

ELMER P. HUBSCHMITT

WHY not try your hand at lacquering? It really is fascinating work and the results obtained are more than commensurate with the effort put forth.

It may be said that lacquer is to a great extent responsible for the present-day fashion for color. Two years ago the redecoration of odd pieces of furniture meant several days waiting before they could be used again, with the usual annoyances occasioned by dust settling on their surfaces and accidental injury during the drying period. To-day a kitchen chair may be refinished with lacquer enamel and used within an hour after its application! Moreover, owing to the nature of the pyroxylin binding medium, lacquer enamels provide purer and richer tones in a range of colors which satisfy the most exacting tastes. Beautiful shades of oriental red, jade green, Holland blue, French gray and Chinese yellow have been made with a color purity hitherto unequaled. By intermixing various stock colors of lacquer hundreds of shades may be produced. The wide range and richness of palette which these enamels offer make color harmony in the home a fairly simple matter.

Brushing lacquer may be used for so many things—for finishing or refinishing woodwork, floors and unpainted furniture. It will rejuvenate old pieces of furniture, bring added beauty to floors and woodwork, as well as revive the interest of the child in an otherwise discarded plaything. Bric-à-brac, pottery, lamp bases, etc., may be artistically decorated. This material has its place in the living room, dining room, bathroom, kitchen, sun parlor and porch; in fact, anywhere where one seeks to blaze the trail of color fashion with a minimum of inconvenience.

Not only do such lacquers impart beauty to the article on which used, but they also add greatly to its wearing properties. A lacquer of good quality provides a smooth, hard, tough and abrasion-resisting film, which may be frequently and readily cleansed (with a solution of warm water and soap) without injury to color or gloss. In fact, with constant use, it develops a patina equaled only by the most skillful hand-rubbing and polishing of the old-time enamel finishes. On account of its resistance to discoloration and staining, lacquer is the outstanding material for kitchen and bathroom.

The term lacquer is not a new one to most people. It has been known to the Chinese for centuries. Most of us can remember how years ago it was used as a finish on polished brass surfaces to retard oxidation. It was not, however, until after the World War that the paint and varnish industry successfully developed the quick-drying, brushing type of lacquer enamels, which are to-day so popular among householders who demand a quick-drying, decorative enamel finish.

The history leading to the development of lacquer enamels is rather interesting. During the World War guncotton for explosives was in such great demand that a vast amount of capital was spent in erecting buildings for its manufacture. Guncotton, as you know, is simply cotton which has been washed, dried and treated with nitric and sulphuric acid, and is the basic material used in the manufacture of various explosives. After the war there no longer existed the great demand for gun cotton and the manufacturers of this material set their research chemists to work in the hope of developing peace-time products which might be manufactured by using the war-time equipment. The present-day lacquer is one of the results of this research work.

About three years ago we first heard of the so-called spraying type of lacquer which dries hard in less than five minutes and which is extensively used for automobile and other industrial finishing work. Owing to the rapidity with which the spraying type of lacquers dry they cannot be applied with a brush by either the master painter or the amateur. The so-called brushing type of lacquers are a most recent development and have found much popularity with the public because of their quick-drying qualities and the durable nature of their porcelain-like films. Brushing lacquer differs from the spraying lacquer in that it contains slower evaporating solvents and a plasticizing medium which gives the material better working qualities, flexibility and durability. It is made by incorporating gum mixtures, ground pigments (if colored), and certain drying retardents with a pyroxylin base solution.

The 'magic properties' of lacquer are one thing; its application another. Lacquer is different from oil paints and enamels not only in its physical beauty and wear-resisting qualities, but also its working properties. It seems qu reasonable that a material which dr hard within a half hour will act differen under the brush from one which dr hard in a day or more. It has been r experience that brushing lacquers as class are not as easy to apply as oil pai or varnish enamels, yet with a minim of practice the amateur can successfu lacquer the most intricate surfaces if will follow the suggestions listed belo

SURFACE PREPARATION

(1) Be sure that the surface is d clean and free of dirt, oil, grease, furnitu polish, floor wax, etc. Oil, wax, furnitu polish and grease can best be removed wiping the surface with a cloth dampen with Lacquer Thinner. Floors which ha been waxed should be cleaned wi gasoline and scrubbed before receiving lacquer finish.

(2) Sanding of the surface is not nec sary except in cases where the old fini is badly marred.

(3) New open grained woodwork shou be filled with a paste wood filler and t material should be given twenty-fo hours to harden. A thin coat of shel should then be applied and, when d slightly sanded, after which the lacqu may be applied.

(4) Never apply brushing lacquer ove recently painted, enamelled, or varnish surface. The solvents in the lacquer m act as paint remover would.

STIRRING AND THINNING

(1) With the best of brushing lacqu the pigment tends to settle out of soluti It therefore becomes necessary to stir t material until the coloring pigment thoroughly mixed with the liquid porti to an even consistency.

(2) Do not thin the lacquer unl absolutely necessary and then only w the lacquer thinner made by the mar facturer whose material you are applyi One to three teaspoonfuls of thinner p pint of lacquer should suffice.

(3) Owing to the quick evaporati tendencies of the solvents in lacquer, t can should be kept sealed when not in u

APPLICATION

(1) Use a soft haired, long bristle, f varnish brush of convenient size.

(2) In applying (*continued on page 4*

Very fittingly the garden keeping on the famous old Nelson place at Yorktown is in harmony with the antiquity of the place. Though the work may be new the 'feel' of it is old. The flower garden seen above is a very modern creation by

Charles F. Gillette, Landscape Architect, but fits its environment. The stone column with its four-sided sundial, old enough to be sure, was brought from Ireland a few years ago and placed in its new home as the central focus point for the

new flower garden which is sunken below the intimate terrace of the dwelling. Each side of the four-faced dial is, of course, properly designed for its orientation, and the whole feature is a charming and unusual finishing touch

AN OLD IRISH SUNDIAL IN VIRGINIA

The Old Nelson Place, at Yorktown

Photographs by H. Bagby

The early days of America when sailing ships brought treasures from the Indies are held in this paper that so fittingly covers the walls of this Colonial room

Wallpapers Rejoin the Fashion Parade

Old patterns rub elbows with modes of to-day

LEONTINE HENRY SANDERS

THE passion for plain walls which has been so noticeable in interior decoration for the last two decades or more, was a reaction against the hideous designs of the last part of the nineteenth century.

Though most of us admired the huge red or blue or yellow roses on green lattices that adorned so many bedrooms when we were very young, by the time we had grown up our tastes had become more sophisticated. Unable to find paper that met this mood, we eschewed it entirely and left our walls perfectly plain—though this rigor was later modified by paint, which, in its turn, was varied by paneling, stippling and other rough plaster effects. In this enthusiasm for an austere simplicity of wall treatment we were undoubtedly influenced by the growing vogue for Italian and Spanish and Early American interiors, in none of which is wallpaper appropriate.

Now the pendulum is swinging vigorously back in the other direction. We are beginning to tire of plain surfaces, we are turning back to paper, our old love, and are thrilled to find her—as is not usually the case with childhood sweethearts—far more beautiful and fascinating than she was in the old days. For the wallpaper makers, in company with the fabric designers, have admirably caught the modern spirit, which is a blend of beauty and sophistication. They are producing designs which may be, to suit your taste, either charming, bold, subtle, whimsical or impressionistic—which have distinction and personality.

Generally speaking, two trends are noticeable in the new offerings. Side by side with a renewed interest in the papers of the eighteenth and early nineteenth centuries, there is an increasing feeling for the modern spirit, and more sophistication than formerly, as revealed in daring color combinations and large impressionistic designs. Some of the papers from Austria and Belgium are even of the bizarre type, designed to go with that new style of period decoration, called 'modernistic,' which has won such increasing popularity, in the last two years, in Paris, Vienna and Stockholm, and is now being seen with ever greater frequency in this country.

In many papers to-day the unimaginative white background has almost entirely disappeared, though of course it still remains in strictly period designs; in others its place has been taken, to a large extent, by flesh color, which is one of the favorites this year, and by pale tones of cream, ivory, gray, taupe, blue, lavender or yellow. Some of the newest and most beautiful papers are reproductions of old tapestries, brocades, velvets, silk damasks, cretonnes and English linens and the so-called India prints which graced Colonial drawing rooms!

The real passion, however, is for scenic papers and panels. Until recently these scenics have been almost prohibitive in price, ranging from about $500 for a ten foot square space to as much as $5,000 for

esting the quaint s on old Stafford- ware and mulberry s, the modern paper duces for the mod- home the charm of hat other period

Nothing could more easily mar the perfection of the room above or the hall below than wall-paper carelessly cchsen. In both cases the paper adds the final note of loveliness

The three papers (center, left, and right) have been made by M. H. Birge & Sons, with painstaking care so that in each detail they will be found to hold all the beauty of the old papers they copy

The paper above like that at the left is a reproduction of old design and coloring to make complete the modern room fitted with old furniture

nuine antique, such as those in the erican Wing of the Metropolitan eum. During the war the factories in ium, where many of the modern re- luctions of old scenics were made, destroyed. The blocks from which were printed, however, were hidden saved. Now the factories have been st rebuilt and the printing of scenics ing on with greater speed than ever. e of the most famous are 'The Ad- ures of Telemachus,' 'The Banks of Bosphorus,' 'Isola Bella,' 'The Mon- nts of Paris,' 'The Voyages of Cap- Cook,' and 'Cupid and Psyche.'

Many scenics are reproduced from the inal old blocks, and others from ern blocks made from old designs. y may be either complete pictures, ving men and animals against a ground of trees, rivers or houses, in color; or they may show slightly ventionalized flower forms in one or colors or in different shades of the e color. The elaborate pictures are, of course, the most costly, and the inexpensive scenics are to be found only in the simpler color designs and combinations. However, as the rage for this kind of paper increases, it is safe to predict that it will be made in even larger quantities, and that there will be continually more good copies on the market at a price which will make them compare favorably with the cost of painted walls.

When scenic paper is used, it is, of course, by no means necessary to cover the entire wall. Beautiful effects may be gained by having the walls painted and paneled as usual and simply putting in a scenic strip here and there, just as you would hang a beautiful piece of tapestry or brocade. Framed panels of paper have been used in this fashion over drawing-room mantelpieces, and back of davenports, beds, consoles, desk tables—in fact, anywhere that a large picture would be appropriate. Not only has such use been made of scenics, but it has been extended with telling effect (*continued on page 408*)

Practical Paths for Little Gardens

A well made path lends a touch of interest to even the smallest garden—what materials and how to use them

EZRA C. STILES

PATHS of some kind we must have about the garden and the home, so why not have good ones and pleasant ones? Of course concrete has its uses and no doubt must stay with us from a cost standpoint; but why not confine it to the one from the back door to the service drive or to the one back to the garage? If the front one is concrete we can hardly name it other than a walk, but if it is of soft colored brick in basket or regular pattern, how much easier it is to call it a path, and enjoy it. And when we come to gardens, it is surely paths and not mere walks that have a place.

It is my belief that more gardens fail from lack of proper paths than from any lack in plant materials. To be absolutely honest and frank about this business, you may plant your flower areas and shrubbery borders with almost any sort of plants and if you keep replacing varieties which die out with ones which will live, you soon have a real garden.

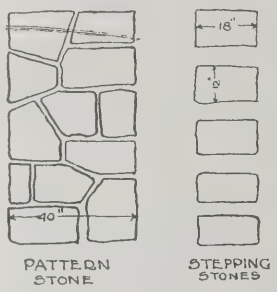
But if paths are put in and then neglected either the flower borders will so encroach upon them that the garden will look merely a planless tangle, or the path areas will so encroach upon the flower borders that the idea of a garden will be lost in a jumble of ill-kept paths, and, in either case, all idea of pattern, symmetry and beauty be obliterated. The average home owner will then give up in disgust, turn the garden back into lawn area and either blame himself for ever having started a garden, or will blame the landscape architect who designed a garden for that area.

To begin with, let us consider the different varieties of paths most commonly used on small properties; namely, grass, sand or gravel, stepping-stones, or brick. Of the four types, on the average, grass will require the most maintenance and brick and stepping-stones the least.

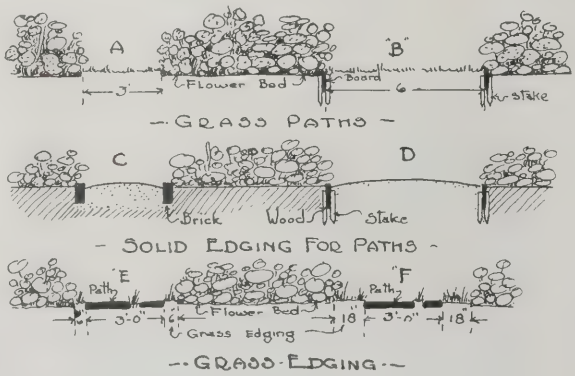
If you are going to make a grass path by all means make it at least six feet in width, for the small grass path of the two or three foot variety is practically hopeless to keep up inasmuch as the perennials will lean over in such a manner as to seriously interfere with mowing. Even the four or five foot grass path will show too much wear in the center; so if you cannot have a grass path six feet in width, have the foresight and courage to omit grass and substitute something else.

It is well also to consider the question of a permanent edging or else you or the gardener will spend nearly all of the working time in rooting out grass from the flower beds or in keeping Forget-me-nots and Creeping Phlox and other edging materials out of the grass area.

The best trick is to install 6 x 1 in. common boards dipped in creosote all around the edges of the beds. These boards can be staked on each side with $1\frac{1}{2}$ in. stakes $2\frac{1}{2}$ ft. long and nailed firmly to them. This gives a neat and inconspicuous edging which keeps the flowers in and the grass out.



The pattern stone walk (left), made of flat stones laid 40 inches wide, really allows for more comfortable walking than the stepping-stone path at right



Three types of practical paths for the garden: grass paths, paths with solid edging, and those with grass edging—all described in accompanying text

Gravel paths accommodate themselves well to any desired width; but if used, must be provided with a solid, permanent edging, or by the end of the first rainy spell, when the weeds get nicely started, you will not be able to tell where the pat stops and the bed begins. One convenien form of edging, especially for the roughe types of loose gravel path, is the boar edging as described for grass areas. Th other type of solid edging is of brick lai on end, either with or without concret joints. This is especially suited to care fully constructed water-bound macadar paths laid on a solid foundation. Th boards will be nearly as satisfactory bu will not look as well with this more forma type of path. Gravel paths require les maintenance than grass, but should b rolled and shaped up after each rain.

Stepping-stones and brick are probabl the best paths for all-round use in re stricted areas where the travel is constan since they dry quickly after rains and nee no special maintenance.

When once laid on a firm foundation o sand or cinders, a stepping-stone path wi require no further attention other tha the rolling of a lawn mower over the sur face to keep down the grass in the open ings between the stones. But here agai a word of caution is advisable. Do no leave a 6 or 8 inch grass strip between th stepping-stones and the flower border, fo it is nearly impossible to cut such narrow piece by machine and as a resul you will have a lovely session with th grass shears. Such a task, if the pat area is extensive, takes as much tim as the care of all the rest of a ga den. Either make the stepping-ston path very wide and run the flowe right up to it, or, preferably, allo an 18 inch grass border on either sid of the stones.

And another word as to steppin stones which, while beautiful from pictorial standpoint and eminentl successful for marshy areas or litt used side paths, are very much misuse when it comes to garden or other con stantly traveled paths. Used strictl as stepping-stones in marsh land o in water, the customary method is a right; but such uses imply only o casional travel and there is nothin more uncomfortable than trying to wal from one stone to another and attemp to inspect a garden or keep up a conve sation.

To begin with, the paces of me women, and children are all differen and stones laid in (continued on page 42

The Garden Beyond

'Gardens have a language of their own—
Sweet speech which lingers in the heart'

LILIAN C. ALDERSON

HE advertising agent of a well-known department store informs us, an ingenious psychology, that merely ut on the garment sold as a smock, by flex movement of the brain, incites in wearer a desire for work. If this be so, one need merely look at one's garden eel the urge to be at it with hoe and and spray-pump. But contrariwise— more I work in my garden the greater longing to be able once in a while to here in the midst of my hard-won ories with sufficient absorption of d to really enjoy them.

stead of this Nirvanic state of con-usness, I find my spirit hampered by y worries that flit through my ghts in disorderly succession. Why not those Delphiniums received the autionary staking so necessary to r present salvation? If I had ordered Wilson's O. K. in time the Roses ld not now have their dainty little s alive with greenfly! Was it Wilson's ad I confused it with Melrosine and one spray on cloudy days or clear? here my mind wandered, and my ghts trailed off in the direction of the etable garden, and of tying in the nato vines, whose shoots showed a de-able tendency to grow away from the orts I had lovingly fashioned for n. After all, there was something to aid for the Victorian habit of growing s vegetables and flowers far away the house and having them handed s picked clean of blemish with the s carefully washed off.

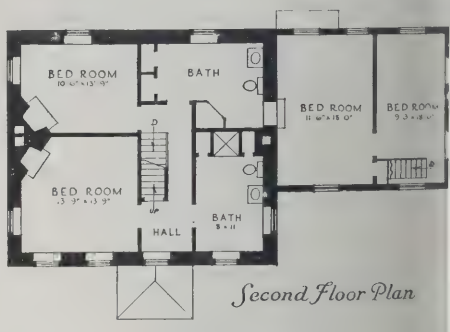
his soothing train of thought was ed to a standstill by the bitter re-ion that nowadays few of us could rd a real gardener, and that if the en were far away from the house, it ld probably belong to some one else. ur growing spaces are of necessity er the house than they used to be, what if we could create for ourselves llusion of distance and tranquillity would help to lessen the tension of ern life and give back the feeling of urried leisure?

his then was the origin of my great —the garden beyond. Not the heav-garden of our Sunday-school days, a real home garden looked at with itical eyes. (*continued on page 418*)

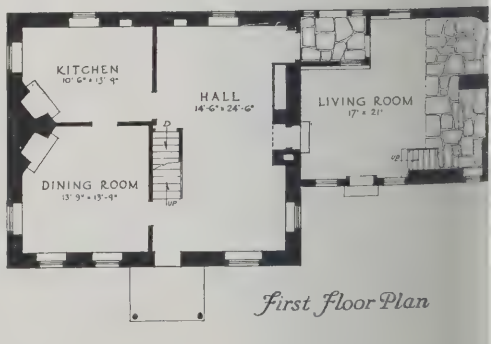
Effects of distance may be but suggested as here where one looks through a doorway into a small formal garden refreshingly green, the only touch of color being given by Iris which rim the pool. At the home of Mrs. Arthur V. Meigs, Radnor, Pennsylvania; Mellor, Meigs & Howe, Architects

Fireplace end of the living room which retains the primitive but homelike atmosphere of the old farmhouse kitchen. A long crane carries characteristic iron-mongery and especially noteworthy is the collection of old copper

Below we get another glimpse of the living room showing the joining of the hearth—which is of huge, flat fieldstones extending the full width of the room and nearly halfway into it (see plan)—with the wooden floor



Second Floor Plan



First Floor Plan

The room arrangement is simple and straightforward with no waste space or unnecessary jig-sawing, and is largely untouched. The small wing dates back at least two hundred years and on the larger stone portion (photograph on opposite page) the interested visitor discovers 'I. & A. Eldridge, 1818'

dowlane Farm-
se from the
, showing old
ered and white-
hed wing at
and the newer
rtion at left

An Old Homestead Renews Its Youth

Built two centuries ago this Pennsylvania house still carries beauty and comfort

JOSEPH L. COPELAND

THIS old house, an excellent type of the simple stone farmhouse built by y Welsh settlers in Pennsylvania and ed to by their successors, owes its rm very largely to the fact that it has er been elaborately 'restored.' It ds on a gentle slope of turf, in its set- of old trees, as a striking example of wisdom of letting well enough alone. is a house full of character, livable, ing the charm of simple, homely gs. The spiritual quality of the many ple who dwelt within these walls in past two hundred years must have high, for they left the very breath of dness behind them. Whoever they e, they loved the house, for they kept good repair. When its present owner it over a year ago there was very e needed to make it habitable. A heat- system that did not mar the beauty of s and floors was in the house and a ll room had been converted into a room. A second bathroom, one new r, pewter electric sconces, a few minor irs and a little paint and the house ready for the furniture.

o restoration, as that word is generally erstood, had ever been undertaken by vious occupants and the present owner decided that none shall be attempted now. Old hinges and locks and latches were on most of the doors; even the original glass was in many of the windows. It was not a case of the house being 'good enough' to live in. It was so good that it would have been sacrilege to change it.

There is an exceptionally fine mantel in the dining room whose furnishings are mostly old and in character with the rest of the house

It is a small house, facing south, with a very old, low east wing plastered and whitewashed, and the larger, newer part showing on its western and southern walls the queer green serpentine stone quarried in the vicinity and so often seen in old Philadelphia houses. This wing has a date stone: 'I & A. Eldridge, 1818.' The old part is at least two hundred years old and at one time was the home of a miller whose wheel was turned by the waters of a near-by brook.

Whether he was as happy and contented as the miller of the Dee is not known, but he should have been. He had a good fat farm to feed him and a good fast brook to turn his wheel and a good stone house, one room down and two rooms up, to live in. The steep, narrow box stairway by which he mounted to his bed is still there, its treads worn into deep hollows by his and countless other feet that have gone up and down them for two centuries.

A door of wide pine boards, held together by battens, leads into the old wing, formerly the kitchen, now the living room. At a quite recent period these doors must have been treated on their exteriors by someone with a feeling for color. They look as though they had been given a first coat of nice *(continued on page 414)*

Diversified Walls of To-day

Modern materials both decorative and practical

R. W. SEXTON

Author of 'Interior Architecture'

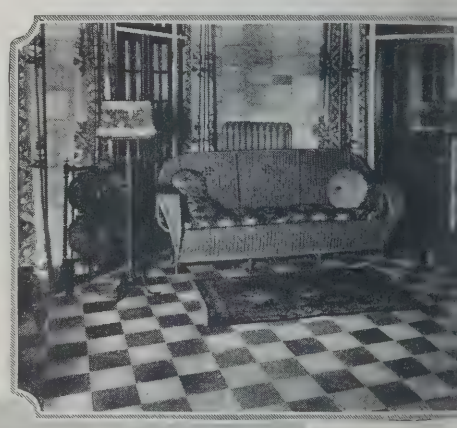
ONCE upon a time walls were merely walls—that is to say they were partitions erected for the purposes of convenience, to keep out drafts, to keep in heat to insure a certain amount of privacy. Of course, fundamentally their function still remains the same, but many things have happened to their outsides, so to speak, and to their insides, too. No longer are they simply constructed affairs of stone, brick, or rough-hewn timber; they may be made of any one of a number of materials which have during recent years been developed, sometimes out of by-products, sometimes out of composites undreamed of by our ancestors.

We are talking now not of the new ways of finishing walls—this was discussed in a preceding article ('Modern Fashions in Wall Finishes,' page 434 of the January, 1928, issue)—but of the materials themselves, materials which have both structural significance and decorative value, in other words which are good to use and good to look at.

One of the modern products used in the construction of walls, for example, which possesses desirable practical properties and suggests decorative possibilities as well, comes in the form of wallboard known as Celotex. Celotex is first of all, an insulating material used on wall or ceiling, it tends to keep out both winter cold and summer heat, and at the same time deadens sound. Its surface is such as to lend itself readily to applied ornament in color.

There are, of course, other materials of modern invention (*continued on page 430*)

A pleasant and practical wall for the child's room is obtained by Celotex boards in natural finish (left)



In this sun room not only the walls but the floor as well are of Zenitherm, suggesting stone in its decorative effect (right)

There are places of course where the older materials remain unrivalled as in this wood-panelled living room (below)

Just because it is one of our own wild plants, perhaps the Bugbane (Cimicifuga) is not really well known in gardens, yet it has a unique quality of airiness and is easy to grow

Minor Prophets Among the Perennials

Better varieties of old favorites

ALFRED C. HOTTES

EAR after year the garden lover makes his choice from among the array of perennials catalogued. mally, he thinks of a new Peony ety to add to his garden, he purchases ris seen at a recent show, he tries a strain of Delphinium from seed, he lves once more to try Phlox. All of e flowers are deserving of extensive ussion and have received recognition any places. It is our purpose to write of the minor prophets among the nnials.

ay leaved Perennials. Besides having ndid cut-flower perennials the garden lover eagerly searches for new foliage to set off the flowers when he wishes to arrange them attractively. It would seem that every gardener would desire a plant of the new Artemisia Silver King. Akin to the Sagebrush of the West it has white foliage and graceful flower spikes which help to act as a harmonizing influence. It has not the coarse foliage of many of the gray-leaved shrubs nor does it have the provoking short growth of the sort known as the Bible-leaf or Old Woman (Artemisia stelleriana), a low creeping plant growing in America gardens and unnamed by most housewives. The Bible-leaf is undoubtedly a good ground cover but the stems are too short for flower arrangements. It is only proper, however, to add one more Artemisia to our list, the Hawthorn-scented Mugwort (Artemisia lactiflora), fragrant, fine flowered and produced in wondrous profusion upon tall plants—it does not need staking. It is an asset to the background of a border and a most valuable sort for cutting.

Perennial borders which have not included the ornamental species of Mullein are lacking in true acquisitions. Like the wild Mullein of our fields, these plants are biennial. The Phoenician Mullein

(Verbascum phoenicum), is not unlike the low growing Moth Mullein of our fields, except that the flowers are white, pink, salmon, and various intermediate tints. There is a strange cobwebby mass of hairs upon the stamens at the centers of the flowers. They are low growing and should be planted in clumps. As they self-sow they need be purchased but once. The Greek Mullein (Verbascum olympicum), is more like the common Mullein with long spikes of yellow flowers produced in greater profusion. The foliage is silvery gray and very large, so that the sort is a bold attractive sort, to be used sparingly as an accent planting.

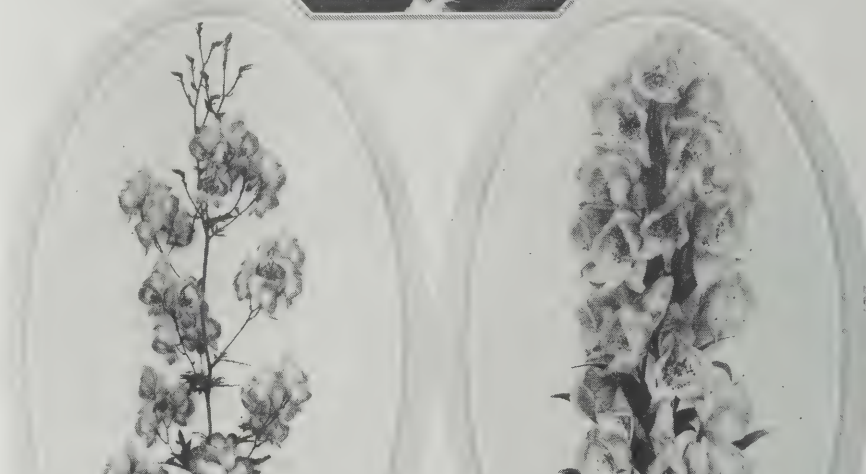
Having mentioned the gray-leaved Artemisias and Mulleins there is yet another interesting gray plant known as the Woolly Woundwort (Stachys lanata). This low plant has leaves covered with long intertwined white silky hairs. The flower spikes are rosy purple, but are not showy or desirable.

The Sages. A score of Salvias are found at times in various American gardens but few are as popular as the Mealycup Sage (Salvia farinacea), which resembles the commoner and hardier Azure Sage (Salvia azurea). In this species the stems and calyx of the flowers are covered with a white meal or farina which adds to its attractiveness. The Azure Sage is a trifle unruly in growth. The Mealycup Sage is only reliably hardy south of Philadelphia, but northern gardeners store the plants in coldframes or root cuttings in the fall. When a greenhouse is unavailable seeds may be sown in a sunny window in March. This sort often self-sows in the garden. Resembling these two sorts but with deep indigo blue flowers is the sort cataloged as Salvia pitcheri. Many perennial nurseries believe that Salvia azurea and pitcheri are the same. Read their descriptions to see that you get the deep blue when you order it.

A cheery, bright rose flowered perennial has foliage which is quite woolly white. It is known as the Mullein-pink (Lychnis or Agrostemma coronaria). The five-petalled flowers on long stems give a pleasing contrast with the gray leaves. As the plants die when several years old, keep them rejuvenated by dividing in late summer or else raise a new lot from seed.

Japanese Anemones that come to bloom late in the season are to be had in several choice named varieties (right) and varying shades of color

Quite like and closely related to Larkspur, the Aconites offer a few forms blooming in early summer to fall. The Autumn Aconite below



The early flowering Aconite is looser in habit than the late type, and may be had in shades of blue and purple blue to white, and combinations as above (left oval)

To do in our gardens what Lavender does in England's, the Mussin Catnip serves with gray foliage and rosy pink flowers. Violas shown in foreground (left)

The Gray Speedwell (Veronica incana) is useful for the front line of the border and blooms freely in June. The plants are rather prostrate but the flower spikes are erect.

Several Edging Plants. The neatest of tiny edging plants, the Thrift grows three to six inches tall and bears light pin rose, or white flowers in dense head-li clusters. The foliage is narrow and almo grass-like. Catalogs list this flower Armeria or Statice armeria, of which the are several varieties differing in height a color of the flowers. The plants are dif cult from seed but once a few plants a purchased, they may be divided in la summer or early spring into many piec which soon grow into good-sized plants

The Coralbells (Heuchera) has lob leaves produced in dense rosettes a fe inches tall but the grac ful wiry flower stems ri eighteen inches abov The bright red, coral, pink bell-shaped flowe are produced in gre profusion upon plan which are growing their proper enviro ment. The variety Plu de Feu is a very brig fiery red sort. Ros mundi is very tall wi coral flowers. The He chera can also be prop gated by cuttings t same as for Thrift. Bo the Coralbells and t Thrift are a little tend in regions devoid of sno through the winter; snowy regions they a much hardier.

There is nothing n about the Larpen Plumbago but its brig gentian-blue flowers a too seldom seen edgi our perennial garde The value of these plan is twofold—the color the flowers is unique a they open very late the garden year.

Three Terrace Plan Terraces are very co mon in cities despite t fact that growing con tions are not favorab Struggling grasses a unsightly, mowing difficult, and every fe ture of these spots undesirable but there is no way change grades at will. For such pla try the Crownvetch (Coronilla varia), perennial which spreads by undergrou stems. The lovely lavender-pink and wh flowers are produced in round heads a are pea-like. The foliage is fine, divid like a Locust and remains green duri adversity.

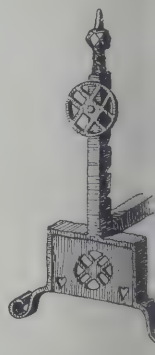
For masses of bloom upon steep ban another perennial is gaining in popularit It is a European (continued on page 4

Photograph by George H. Van Anda

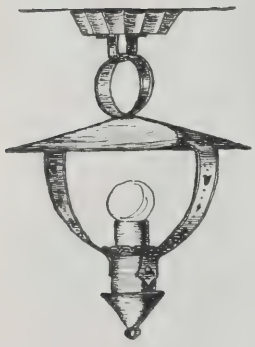
A HARMONY OF FINISHING AND FURNISHING

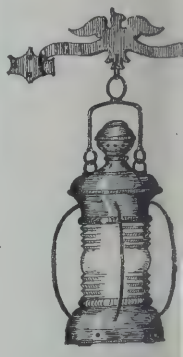
Style—in its best and not its cheaper sense—and individuality pervade this room whose every detail has been carefully thought out with an eye to the unity of the whole. The window treatment is particularly attractive and even such small things as casement fasts, firedogs and so on (see pages 20, 21 also) are all more than ordinarily interesting and were designed by the architect-owner, Mr. Benjamin F. Betts

Lantern of tin and mica designed by Mr. Betts for his hall — such details lend individuality

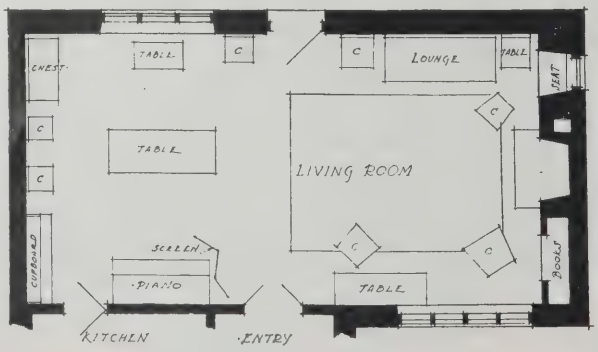


One of the inter ing andirons es cially wrought the living room (page 381)





At right we have the plan of the living room indicating final placement of furniture, and below are the north and south sides of the room showing furnishings in elevation and in relation to windows, doors, etc. Such preliminary sketches are very helpful and, when building, should be made



while alteration is still possible. The fruit of such forethought is evident in the dining room picture above and the living room on opposite page. An old ship's lantern and wrought-iron bracket (right) light the entrance door and the bed rooms too have delightful little lanterns (see sketch left)

Perfection never flowers out of the haphazard and in this charming little house nothing was left to chance—as the preliminary mantel sketch (center) and its final working-out (above) clearly prove. Home of Mr. and Mrs. Benjamin F. Betts, Scarsdale, N. Y., for which Mr. Betts was the architect. Other views appear on pages 381, 382

Watching the Little House Grow

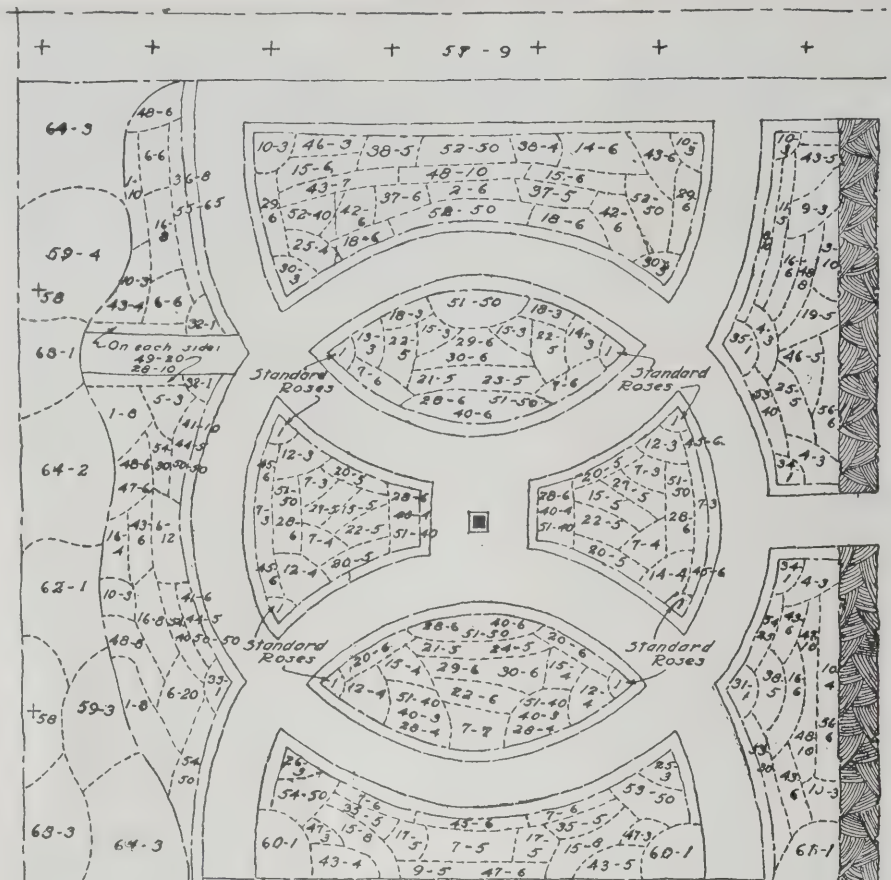
Part II. Harmonizing Style and Furnishings

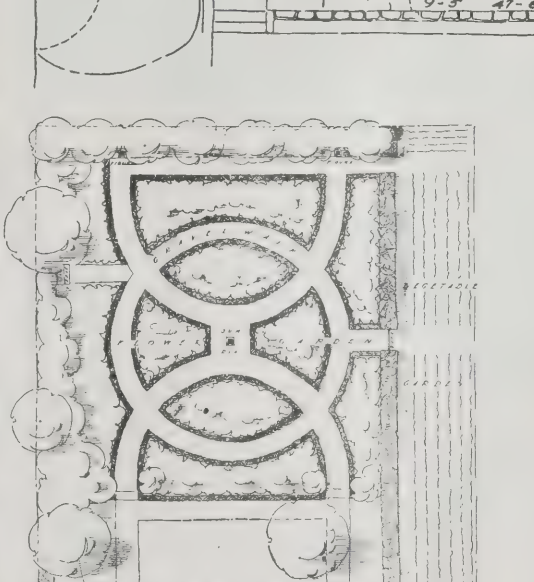
R. W. SEXTON

EADERS who missed the May issue will certainly want to turn back to it read the beginning of this interesting ure. It is not every day that one dis- rs so charming a little house or has pportunity of following its evolution by step—a very illuminating process, ne way, for the would-be or soon-to- wner. A careful perusal of this story prove the means of avoiding future akes and we are particularly glad that architect-owner, Mr. Benjamin F. s, has been generous enough to pre- his experiences and successes for the ht of others. The earlier article (page 263, May Garden & Home Builder) was written by Mr. Betts and, at his request, the second half of the tale is here told by Mr. R. W. Sexton who followed the furnishing and finishing of this delightful six room dwelling with keen interest and intelligence—not alone because of personal friendship for its owner but because he is by inclination and profession a specialist in house furnishing, being the Editor in charge of Interior Architecture on the staff of 'The American Architect,' and the author as well of several helpful books on this all-important subject.—The Editors.

There are properly two aspects in the design of a complete room or interior—first, its architectural treatment, and, second, its furnishing. It is unfortunate that so often these two are completely dissociated instead of being worked out together as a harmonious unit. For a room to really meet the requirements of its owner, allowances must be made in the initial plan for the satisfactory placing of essential or desired pieces of furniture.

Generally speaking, we are apt to consider the architecture of a room as merely four walls, floor and ceiling. The balance of the design, (*continued on page 430*)





Planting Plan For The Pastel Garden

PERENNIALS

1) 26 Fall Monkshood (Aconitum autumnale)
2) 6 Sparks' Monkshood (Aconitum Sparks')
3) 10 Monkshood (Aconitum napellus bicolor)
4) 9 Opal Alkanet (Anchusa italica opal)
5) 3 Dropmore Alkanet (Anchusa italica Dropmore)
6) 44 Japanese Anemone (Anemone japonica)
7) 56 White Columbine (Aquilegia nivea grandiflora)
8) 10 Aquilegia double hybrid
9) 8 Pink Michaelmas Daisy (Aster shorti)
10) 22 False Chamomile (Boltonia latisquama)
11) 5 Chrysanthemum, bronze
12) 18 " cream
13) 3 " pink
14) 13 " yellow
15) 52 Light blue Larkspur (Delphinium belladonna)
16) 32 Hybrid Larkspur (Delphinium hybridum)
17) 10 Sweet William Newport Pink (Dianthus barbatus)
18) 18 Mistflower (Eupatorium coelestinum)
19) 5 Late Lemon Daylily (Hemerocallis Lemon Queen)
20) 32 Coralbells (Heuchera sanguinea)
21) 10 Iris Fritzjof
22) 26 " Gold Bound
23) 5 " Gerda
24) 5 " Ivorine
25) 12 " Wyomissing
26) 3 " Queen of May
27) 10 " Souvenir de Mme. Gaudichau
28) 64 Virginia Cowslip (Mertensia virginica)
29) 24 Catmint (Nepeta mussini)
30) 18 Pentstemon Shell Pink
31) 1 PeonyAlbatre
32) 2 " Eugene Verdier
33) 1 " Marchioness of Lansdowne
34) 2 " President Taft
35) 1 " Single salmon
36) 8 Wild blue Phlox (Phlox canadensis)
37) 11 Phlox paniculata Independence
38) 14 " " Mme. Paul Dutrie
39) 10 " suffruticosa Miss Lingard
40) 26 " subulata lilacina
41) 16 Yellow English Cowslip (Primula elatior)
42) 12 Purple Coneflower (Rudbeckia purpurea
43) 49 Blue Sage (Salvia azurea)
44) 10 Pale yellow Globeflower (Trollius europaeus)
45) 30 Blue Speedwell (Veronica amethystina)
46) 8 Chrysanthemum rose

(continued on page 420)

A Little Garde in Pastel

The sixth in a series of gardens designed for the small place

RUTH DEAN

THERE are two main points abo this garden; first its plan and seco its color scheme. With regard to the fir the design represents a deliberate attem to add to the interest of the garden means of a plan of moderate and pleasi intricacy; too little invention is apt to shown in the treatment of the small g den site because more often than not t simple rectangle of the lot offers no spiration in itself. We have had all t changes rung on a central panel of gr with border beds at each side and a su dial or bird bath in the middle. It is qu within the reach of the small household to do something more than this with backyard, to give it a pattern pleasant look down on from his bedroom windo and one that deceives the eye a bit a with respect to the limitations of property.

The main paths of the garden are c tered on the porch opening and the dini room window respectively because it always pleasant, especially on a sm place, to tie dwelling and garden togeth by projecting the natural openings of house into the garden.

The plan may be used on either a le site or on one which rises or falls a lit by making a terrace or wall at the po where the flower garden proper begi and building steps either up or down in two paths.

If the paths of the garden are built gravel, flag or brick, the beds will n either a sod border or a Box or B barberry border, so as to have a defin band of green drawing the plan. E without the desirability of outlining forms of the beds, the flowers themsel look best with green knitting them gether, and the garden appears tidier if paths are separated from the beds b green border.

Above all is this the case when flowers are of the delicate, misty, indefi colors used in this scheme. If the paths of grass the border becomes unnecess except that a brick laid flatwise and fl with the grass provides a track for lawn-mower that prevents the grass e from breaking down. (continued on page 4

This simple type of awning is very much in keeping with the spirit and style of this delightful old 18th century Dutch Colonial home—bright flowers and bright fabrics conspire gaily together

At the Bayside, Long Island, home of Miss Rose Stahl the awnings bring a gay note of color that seems to tie the green ivy covered walls to the flowers beneath the windows (left)

Softening the Summer Sunshine

Awnings, useful and decorative

HANNA TACHAU

ECORATING the exterior of a house implies as great a feeling for , form and fitness to a particular of architecture as does the embellish- of its interior. But few people seem alize this. Take the case of awnings, nstance. In themselves they are but r bits of decoration yet what an rtant part they play in the general architectural scheme! They have the power to make or mar a façade.

Before the rather recent widespread interest in the decorative arts, awnings were grudgingly utilized as ugly though necessary appendages—a means of bringing comfort to a house by protecting it from too hot a sun and from rain. Now, they are being freely introduced, not alone for their utility—but for their decorative possibilities as well. There are occasions when architectural blemishes can be hidden or at least partially concealed by clever awning improvisations—windows that are too narrow can be made to look wider; a too low entrance heightened, and balance and symmetry given to the house front by putting spots of

color where they rightfully belong. But most of all has an interest been aroused in the treatment of these little canopies through an endeavor to find the best means of bringing out-of-doors into the home, resulting in the present vogue for sleeping porches, outdoor breakfast rooms and sun parlors.

When choosing awnings, be sure that they are harmonious and appropriate to the style of architecture, for they must act as exterior trimmings yet keep their proper place. If they are too prominent or aggressively catch the eye as separate units, they are not in the right key.

As for choice of color in awnings, environment and the material from which the house is built will generally be sufficiently suggestive. Brilliant skies and sparkling water make us remember the daring vivacity displayed by the Venetians in their use of gay canopies, brilliant awnings and sails, and the glowing stripe of gondola posts. And so when surroundings permit, we, too, should spread gay banners and canopies, and learn to use color, as we are beginning to do, for the joyous thing it is. Some types of country home demand awnings of subdued tone to harmonize with the restful environment of green trees and luxurious foliage. Again, there are drab houses in drab surroundings that cry aloud for vigorous exterior treatment and we reply with vividly contrasting awnings. On the whole, the present tendency is toward gaiety rather than sobriety, and we are turning rather resolutely away from the long used, conservative green and white or khaki-colored materials with which we were wont to play safe.

Since it is difficult to mentally visualize an entire color scheme before its completion, it is advisable to make a little preliminary sketch—in this way we can gauge both the amount and the distribution of color, whether awnings should harmonize or be used as a contrast, and whether the tones should be vivid or subdued. An ideal way, if building a new house, would be to have the awning scheme included in the architect's plan, so that there can be no conflict of taste in the final result.

Here awnings are used for the dual purpose of decoration and utility. The window draperies on the balcony are unusually decorative and protect against both sun and storm. (Swanfeldt Tent & Awning Company)

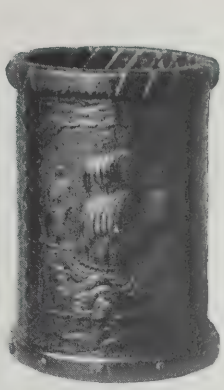
Materials come both woven and painted in various colors and color combinations, both kinds recommended by awning makers, depending upon the climate and situation of the house. The painted ones are now so treated that they are very durable and can stand almost all weather conditions. They can be painted a soft, restful tone on one side, which is very soothing for the eyes, and be as daring and brilliant on the other as desired. Woven materials of necessity show the same pattern on both sides.

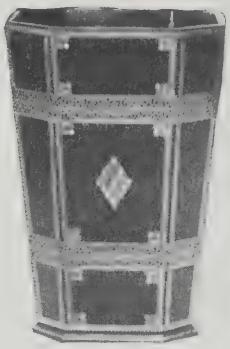
Awnings can be finished in various ways—the edges can be scolloped, bound or fringed, sometimes the scollops ar finished with a fringe. When a one-tone material is used, a simple pattern or lin stencilled in a different color to follo the outline of the skirt, gives it an ofter needed accent. Awnings that are ver ornate, with skirts embroidered or dec rated in bizarre designs with eccentr color pronouncements, are not to be en couraged. They are frequently mere affe tation and detract from a harmoniou effect. Generally speaking, awnings shoul be as simple and direct as possible, avoic ing a too pronounced emphasis.

Extensions, portions of roofs and ba conies are being utilized for sleepin porches—here awnings and various kind of canvas curtains play a protective rôl very effectively. When there is no per manently constructed roof, or stationar overhead covering, an awning can be used which is more satisfactory when attache as a permanent fixture, stretched firml upon rods or posts that will withstan the buffeting of winds. An unusual awnin for a sleeping porch that can be used as protection from wind as well as sun, i one that can be dropped to a vertica position which brings it flat against th piazza to form a wall or curtain; or again it can be raised, performing the functio of an ordinary awning. If the porch i screened, this type of awning can be oper ated from the inside by means of a crank There is also another type of awning tha can be attached to a screen, both being removable as one unit. It has a paten lock which keeps the awning taut at any position, and can also be operated fron the inside of a window or porch.

For sleeping porches and sun parlor there are different kinds of very practica canvas curtains. One type hangs fla against the piazza and is operated by ropes, but when pulled up, gathers in folds as it ascends. (continued on page 414

In this little retreat that is used as an outdoor living room and sleeping porch an awning supplies adequate overhead protection. (Courtesy of Charles Jensen)

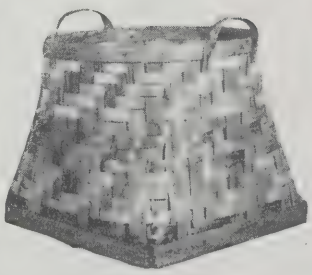




SCRAPBASKETS FOR EVERY ROOM

Photographs by courtesy of Ovington's, Treasure Chest, Freeman-Seldon Inc., R. Tyson White's Sons, Inc.

TIME was when a scrapbasket was merely utilitarian: there was almost no effort to make of it a decorative detail. Looking about this page, with its variety of pattern and design, we are amazed at the leaps and bounds which have been made. Above at the left is a large, heavily embossed leather scrapbasket, appropriate for the town house or den. The little woven basket in the center with its unusual handle fits into almost any room not too formal. Below at left, the chintz patterned receptacle is lovely for a bedroom or boudoir; and the child's room, dining room, music room, and living room are well taken care of. In small detail, as well as in the main decorative plan, to-day's home maker is seeking for the unusual and appropriate in color and design—and even scrapbaskets must fit into the scheme!



Freeing the Lawn from Grubs, Weeds and Worm

A tested method of control that results in fine turf

B. R. LEACH

Bureau of Entomology, U. S. Department of Agriculture

THE average American lawn has been aptly described as being composed of some grass and plenty of weeds. Some of these weeds, such as Dandelion and Plantain which possess a heavy taproot, can be removed by hand with relative ease although it is an expensive process at best. Certain other weeds, however, such as Chickweed and Crabgrass, are an entirely different proposition as far as their easy removal from the lawn is concerned. This type of weed, characterized by a low, clinging and matted growth with roots here, there, and everywhere, is practically impossible to remove by ordinary means. These weeds escape the cutting action of the lawn mower and continue to grow and expand in large patches, choking out the fine grass as they spread—a performance that makes the average lawn owner give up in despair.

Earthworms, in addition to being objectionable in themselves, are also a drain on fine turf due to their burrowing action and the bringing up of subsoil to the surface of the lawn.

Nevertheless, it is possible to have a lawn of sorts in spite of worms and weeds. They may therefore be classed merely as nuisances whereas grubs are actually menaces because they cut off and feed on the grass roots just below the surface of the soil. As a result of this root feeding the grass becomes weakened and, if the grubs are present in the sod in sufficient numbers, the turf turns brown and dies.

There are various species of turf feeding grubs in various parts of this country, including the May beetle grubs very common in the East and Middle West, and the June beetle grub, common south of New York and characterized by the small mounds of earth with which it dots the lawn.

Of late years the Japanese beetle grub and the Oriental beetle grub have come to be serious pests of lawns in certain of the Eastern states. These two pests hail originally from Japan but in habits they are in most respects very comparable to our native white grubs. So far, however, they have proved more consistently injurious to lawns.

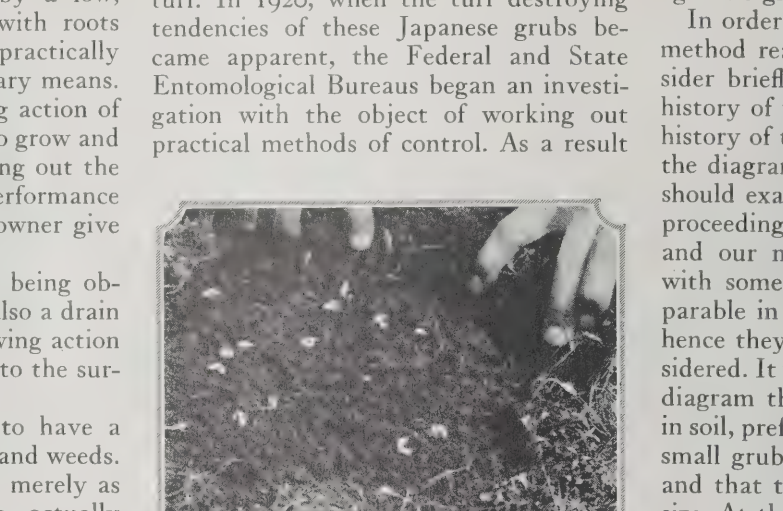
DEVELOPING METHODS OF CONTROL

Prior to the advent into this country of these foreign grubs it may be said, with little fear of contradiction, that there were no practical methods available to lawn owners for the control of grubs in fine turf. In 1920, when the turf destroying tendencies of these Japanese grubs became apparent, the Federal and State Entomological Bureaus began an investigation with the object of working out practical methods of control. As a result of five years of research at the Japanese Beetle Laboratory, a cheap and simple method of control (of both native and Japanese grubs) has been evolved and is being used very extensively by golf courses all over the country. This method is perfectly feasible for the home ground and there is every reason to believe that it will come into more and more extensive use. In addition to controlling white grubs it also controls earthworms and discourages the growth of weeds.

In order to understand how simple the method really is, it may be well to consider briefly some of the habits and life history of white grubs. The complete life history of the Japanese beetle is shown in the diagram on page 406 and the reader should examine that graphic story before proceeding further. The Oriental beetle and our native white grub beetles are with some slight differences, quite comparable in habits to the Japanese beetle hence they may all be included and considered. It will be noted by referring to the diagram that the beetle deposits its eggs in soil, preferably in grassland, that a very small grub hatches from the egg so laid and that the grub gradually increases in size. At the lower left-hand corner of the diagram is shown an early mature grub as it appears in its soil cavity or cell. Note that the grub is feeding on the grass roots which protrude into this cell. When grubs are present in a lawn in sufficient numbers and each individual grub is gnawing away at the grass roots in this fashion naturally the grass will soon weaken under the strain and eventually die.

Above. A rolled back turf disclosing the grubs of the Japanese beetle

Below. A lawn (?) damaged by the Oriental beetle at New Haven, Conn.



THE REMEDY AND ITS PREPARATION

Fortunately, however, the remedy is at hand! It has been found that arsenate of lead, when properly applied to turf, will control grubs and save the lawn. Arsenate of lead is a white fluffy powder, insoluble in water, and is familiar to most amateur and professional gardeners as the

(*continued on page 40*

Bagby Photo

cs, fragrant and , are associated every genuine old- ioned garden, and plantings, we ven- to say, are more ming than this at tover, on the James, inia, the home of iam Byrd, and of descendants, the us aviator and the ent governor of the state

Capturing the Perfume of Lilac and Rose

The method here described really works and might be applied to other flowers of delightful fragrance

ESTELLE L. BOYD

'HERE is an allure in bottling up for future use the actual fragrance of the vers you yourself have grown in your backyard, as it were. Moreover, with the wonderful perfumes now at our mand, illusive, dainty or pronounced the case may be, there is sometimes nething wanting to the woman who pre- a definite personal fragrance, faint true. If you have Lilac bushes (either te or purple) or clumps of summer ses, you are fortunate, for with but le trouble and small expense you can ture all their poetic essences.

There is so little trouble involved that ge quantities may be made, and could re be a more wonderful gift than a cy flagon of home-drawn scent? There other common flowers that can be ated exactly the same way I make rose and lilac essences, and some day going to try lily-of-the-valley, mig- nette, and violet.

HOW TO GO ABOUT IT

pick all my rose petals between ten eleven in the morning, always on a ny day when the flowers are perfectly and before the sun has faded them. ere is more fragrance then than at any e.

Only the very best olive oil is used, never any animal oil, because the highest grade of vegetable oil is practically free from scent of its own; and in making the perfume it is, therefore, easier to obtain the full floral odor.

For containers get the largest size wide mouth tobacco jars of glass, as they have a heavy glass cover that is easily made air-tight. Buy a good grade of cotton wadding, not batting, but the sort of material that tailors use for padding, and cut enough rounds from this to fill the jar. These pieces are put into a crock to soak in oil, so that they are well saturated and then put into the jars like pancakes. Pour one quart of oil over them.

When I have gathered the flowers, I take my clean jars and sprinkle on the bottom of each a thin layer of salt, not the family ground table salt but the coarse kind that comes in small bags. I put a layer of lilac or rose petals two inches thick on the oil soaked wadding slightly crushing them as I put them in the glass jar.

Then I put a piece of oil soaked wadding on top, then begin again with the salt and so forth, until the container is filled so full that I have to press down smartly to close the lid.

A little paraffin is poured around the top to make the jar air-proof and it is then set on a shelf in a sunny window for three weeks. Have ready at the end of that time a supply of small clean bottles that can be closely corked.

When all is ready, I take a potato ricer which I keep for just such purposes, and I pick out the wool, put it in the ricer and press out all the oil that I can. Then I immediately strain it through a fine cloth into my small bottles and put them away, wrapped in waxed paper in a cool, dark place.

REAPING THE REWARD

Now the residue and the cotton and the ricer are full of perfume, so I pour some rubbing alcohol over them, squeeze and strain, and that results in a quantity of most delicate and fragrant toilet water. For use according to necessity I dilute with alcohol. This extract makes my house a fragrant place and the whole operation is an agreeable process.

The true test of a floral odor is not as we smell it from the bottle but as it remains after the alcohol has vanished; and the fragrance then should be elusively faint yet obviously of the flower from which it has been drawn.

The atmosphere of this simple Early American room could have been spoiled by ill chosen lighting fixtures; but fortunately electric sconces were found that seem to belong to this pine wall, bringing the old-time mellow glow of candle lighted rooms

Where to Put Your Lighting Fixtures

Placing lights where they are really needed

WALTER W. KANTACK

ONE of the important items to be considered in the building and furnishing of a modern home is the proper provision for the installation of electric lighting fixtures, which will enhance the decorations as well as fulfill practical requirements satisfactorily.

In altogether too many instances it is evident that the location of electric outlets for lighting equipment has either not been considered at all, or entirely too casually, with resulting disappointment when it is too late to make changes in the location of electric outlet boxes without involving delay and expense. It would be found a much more intelligent, successful and economical procedure were the architect and owner to think about the selection of lighting fixtures soon after building operations are commenced.

The first consideration is naturally the question of utility—lights must go where they will give the most practical illumination for daily living. Then the question of balance must be thought of from the standpoint of the decorative scheme. In many cases it is not necessary to obtain balance by a symmetrical pairing of electric outlets on the side walls, so long as the relationship between fixtures gives a sense of fitness.

Always bear in mind the relationship which the lighting fixtures will ultimately have to surrounding conditions—if, for instance, they are to be placed on a wall beside a door or window opening, remember that draperies will very likely be employed at the sides of these openings and that, therefore, sufficient space should be allowed for such hangings. Before placing an outlet in the center of a sizable wall space, one should consider the advisability of spoiling a possible picture space, and the effect upon furniture arrangement.

If a room is to be paneled with mou
ing, or some such device, the position
these mouldings should be taken i
consideration before installing the elec
outlet. Often the effectiveness of panel
is marred by misplaced fixtures.

The position of wall brackets also ha
decided influence upon the size or sha
of a surface or even of a room. If the w
seems overly long, properly placed fixtu
aid materially in overcoming this appe
ance. In the same way a narrow wall sp
can be made to appear broader by pr
erly located fixtures.

Very often wall outlets are placed at
great a height from the floor to obt
the best effects. This is particularly t
in rooms with low ceilings. Five feet
inches to five feet nine inches from
floor is a good average height for w
outlets. It is rarely advisable to set
outlet higher than this. The height

e electric outlet should always be con-
lered in selecting lighting fixtures, since,
viously, it determines whether the arms
source of light should be above or below
e outlet box, and whether the fixture
ould accentuate height or have a lower-
g effect.

The type and size of outlet boxes should
so be carefully chosen. If round, their
enings ought not to be over three inches
diameter, nor should they project be-
nd the finished plaster. Many delight-
wall fixtures have been ruined by the
cessity of adding plates and collars to
ver large openings or to take care of
jections resulting from the careless in-
llation of outlet boxes. It is possible to
tain outlet boxes having openings two
three inches and of sufficient depth to
ow the use of flat wall plates without
ding to the cost of the electric wiring.
deep outlet box permits one to force the
ck wire necessary in connecting the
ture within the box and thus permit the
of a flat wall plate. What are known
French covers, having an opening of
by two inches, can be had at only
ght expense. These covers are particu-
ly desirable where one contemplates
very small or narrow wall plate.

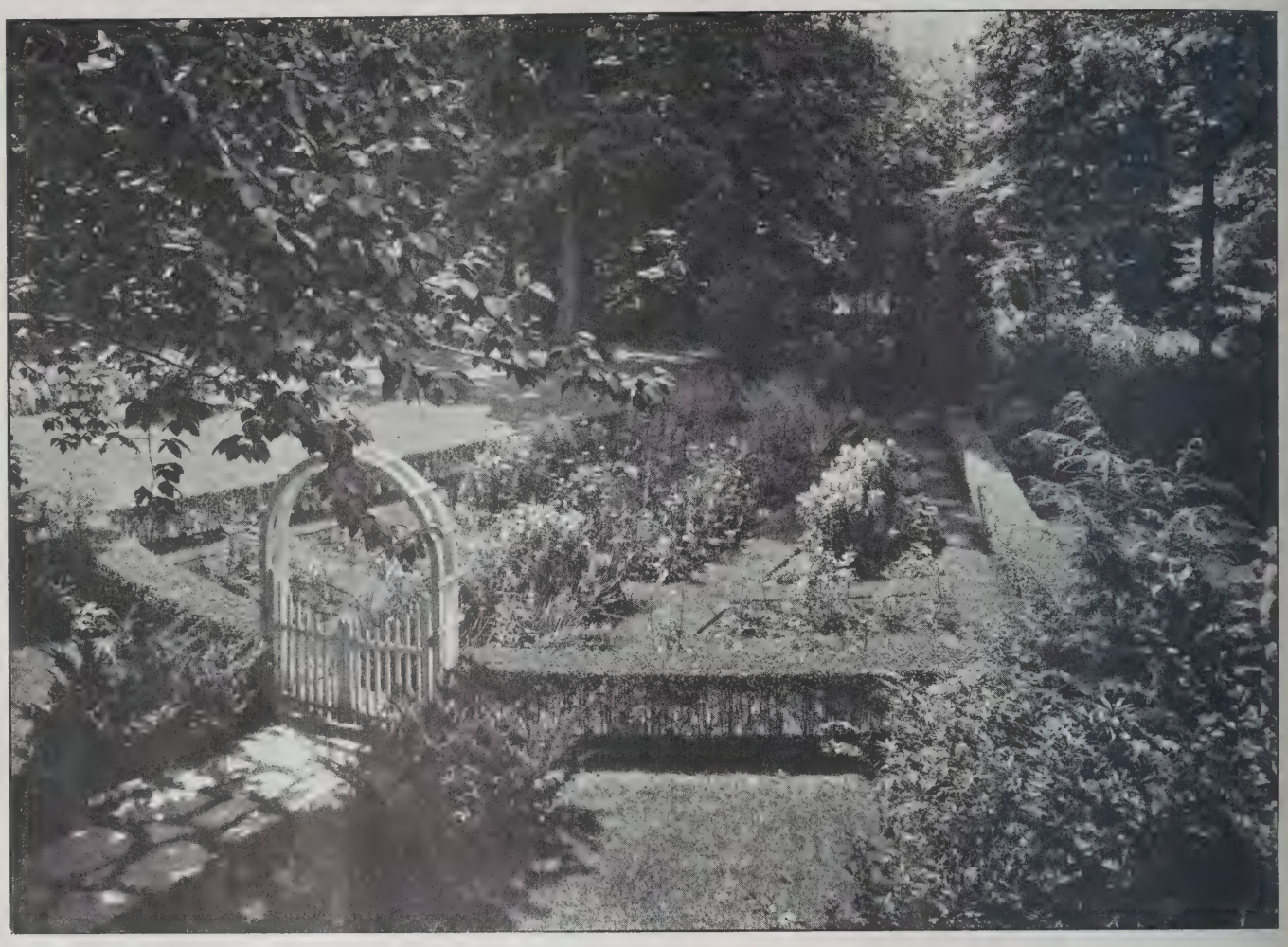
One or more outlets in the ceiling of a
m should be thought of from the stand-
nt of necessity for practical illumina-
n as well as the effect which the instal-
on of a fixture will have on the deco-
ive scheme of the room. Here again
rways and window groupings must
considered in order that the most
asing vistas may be obtained and the
ting fixture have a balanced back-
und. As a rule, the axis of a door, a
up of windows, or fireplace is a desira-
basis for establishing the location of a
ing outlet. Also, in so far as possible,
p it in the center of the room. Above
things consider your own problem as
ividual and do not allow what your
nds or the proverbial 'they' are
ng or using to deprive you of the op-
tunities which are within your grasp,
ou plan your own home.

he location of switches for controlling
ious lighting fixtures should also be
en thoughtful attention. Place them
re they will be readily accessible upon
ering or leaving the room, and—if
nomy is a consideration—let them
trol only as many fixtures as needed
the initial stage of illumination in a
n. It is sometimes desirable to paint
ch plates to harmonize with the color
he wall and thus render them less con-
uous.

Iake adequate provision for portable
ting equipment. In considering the
tion of receptacle outlets for lamp
s, etc., visualize the grouping of furni-
and place outlets accordingly.

Reminiscent of the entrance to an old Philadelphia home is this quaint interior doorway with its prismed lighting fixtures on the side walls actual replicas of candle holders of that day

In this hall at the home of Mrs. Charles Platt III, Chestnut Hill, Pa., the iron lantern speaks of Colonial days. It is the final note in this quaintly furnished entrance way



Looking out from the upper windows one gets this charming bird's-eye view of the flower garden designed by Jacob John Spoon. The doorway planting, also plan of the whole place are shown opposite. Home of Mr. Arthur C. Doornbos at Pelham Manor, N. Y.

Where Gardening Has Cash Value

From no-man's-land to fairy-land on a 100 x 160 ft. lot

SPOON and HOGGSON, Landscape Architects

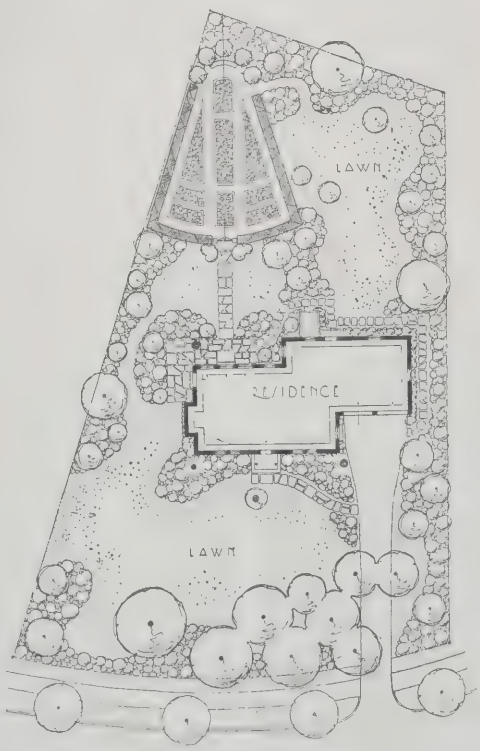
THIS project is a typical Westchester County suburban lot of irregular outline, averaging about 100 x 160 ft. The house was built by a builder as a speculation proposition and afterwards sold to my client just before completion. Nothing had been done on the grounds and they were a regular no-man's-land—piles of waste lumber, lime, bags, boxes, débris—and the native conditions consisted of quantities of rocks and boulders, many dead trees and stumps and a neglected woodland in the distance.

The problem which immediately presented itself was the general grading and clearing, elimination of many rocks and boulders, bringing in of quantities of topsoil and manure and the furnishing of sufficient screen planting to shut out neighboring houses and other unsightly objects. On account of the definitely Colonial atmosphere of the dwelling it was decided not to utilize the rocks for scatter planting, giving the general appearance of a poorly arranged rock garden. The garden, which is along curved lines of a most unusual design, was m
or less dictated by the angle in the so
boundary. Its location is some dista
away from the house so as to furnis
lovely foreground under the shade of h
Beech trees. The garden is out in the op
where it can be viewed from different
gles better than if it had been loca
close to the house, and is thus benefited
such sunlight as is available under l
conditions. This also affords an opp
tunity for a terrace, paved with v
colored flag stones and slate, which g

nost pleasant spot to spend the after-
ons out-of-doors.

In the re-apportionment of the grounds, ficient room has been left for lawn, to y croquet and other games. This is parated from the garden by shrubbery d hedges. The two views of the front rt of the residence show a very simple nting of Hemlocks, Rhododendrons in k, purple, and white blooms, native urel, Azaleas, and low Junipers, which most suitable for this location, where re is quite a bit of shade from the large es on the property. The garden with its ple wooden arch for entrance is viewed m the house through a planting of na-e Rhododendron and huge clumps of ws placed near the garden entrance.

The bird's-eye view of the garden which aken from one of the principal windows tairs in the house, gives a fair idea of layout with the Roses, Lilies, Iris, lox and other garden flowers. The shrub-y along the north boundary, which is ical shrubbery consisting of Lilac, ckorange, Deutzia, Hydrangea and



The hedged-in flower garden shown in the photograph above is seen in relation to the residence

other shrubs, is arranged for screen planting. The design of this place shows what a landscape architect can do with a small property, no larger than the average suburban lot. The actual cost of this work, which was done in the spring of 1925, when labor and materials were quite high, and which included a considerable amount of blasting, to remove rocks and stumps and building débris, and the additional expense of bringing in quantities of top-soil, was a little over $3000. This included all the above items, the furnishing, delivering and planting of nursery stock, the grading of the lawn and all incidentals.

This landscape improvement has enhanced the value of the property so much that the owner has already been offered almost double what he paid for the house in the spring of 1925. Of course, part of this huge increase in value is due to the natural increase of property in this vicinity, but a house adjoining this place, with hardly any landscaping has a sale price of some nine or ten thousand dollars less than the property of my client.

On this corner cupboard the enameled ivory door has its grooves outlined with salmon stripes that harmonize well with the blue-green walls of the room

The over-door painting and contrasting color stripes outlining the panels make this door a veritable picture instead of merely an opening in the wall

Decorated Doors—Reviving an Old Tradition

Color and pattern make the door a point of interest instead of merely an opening

GERTRUDE WOODCOCK

THE current revival of color in architecture has brought back many charming customs, one of which is decorating doors. Far from being ultra-modern and bizarre, decorated doors are quite in tradition. One need go no farther than the nearest museum to see the elaborate decorations with which ancient doorways are ornamented and to realize that the custom of handling the door as a decorative panel is not only an ancient and honorable one, but also a very happy one to bring back into modern usage.

No longer ago than Colonial days something of the tradition remained, and the sturdy paneled doors of the staunch houses were emphasized with a color or decorative treatment that distinguished them from the rest of the façade. Some of these doors may be seen still, and although the so-called decorative treatment is extremely discreet, compared to the vivid treatments of Spanish and Egyptian doors, they are far more interesting than the more familiar one-color doors that now predominate in modern homes.

Decorated doors may be both exterior and interior. The latter, while not in common use, appear occasionally in carefully conceived interiors, but the former are very rare in modern times. For that reason the revival of the custom of giving the front door a distinctive treatment is both old and new—old, so far as tradition is concerned, and new from the standpoint of modern houses.

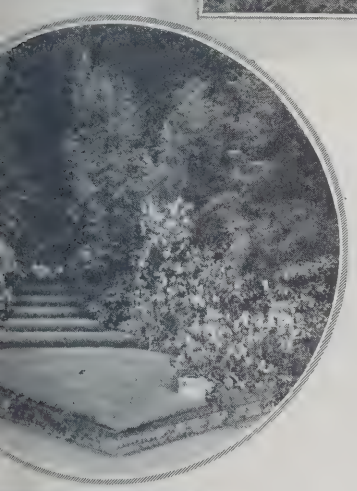
One old house up near Gloucester has a front door painted dark green to match the roof, for example; and a delightful old New Hampshire house has its front door painted that creamy green color which has recently been revived for interior walls and woodwork. The contrast delightful for the main body of the hou is soft gray with white trim. Still anoth house, a severe brick mansion, has a fro door painted deep, rich blue, and t shutters are so dark a blue as to appe almost black.

Two color treatments were often use The panels are painted a lighter co than the stiles or vice versa. This is o of the commonest methods of enliveni door decoration and, in New Engla gray combined with green, or buff co bined with green are the most used colo The General Reed House at Fitzwillia New Hampshire, has a strikingly beau ful front door whose treatment illustra the combining of dark panels and lig colored stiles.

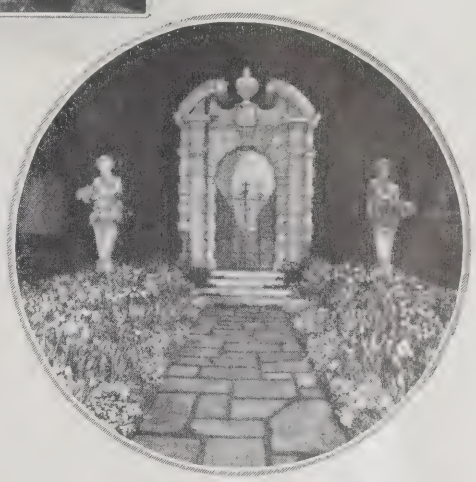
Another treatment consists of paint the mouldings of (*continued on page 4*

An effective planting of Tulips and small spring flowers in a formal garden displayed by John Scheepers Co., of New York

bulb garden
d by Percy
f Glen Cove,
and winner
prize and
d medal



Cactus landscape, a spectacular and thoroughly educational exhibition made by Mrs. Sherman Hoyt, Pasadena, Cal., of the Garden Club of America. A realistic painted background on canvas with a glowing sunset gave space and setting for the Cactus and allied succulents



ECHOES FROM THE FIFTEENTH INTERNATIONAL FLOWER SHOW

THESE glorified floral spectacles must actually be seen—their color cannot be described. Each year there is an increasing perfection of detail and an intensification of cultural quality. The specially staged gardens are real object lessons in design and harmony of color, balance, and form. But they must be interpreted—they cannot be transported or even translated. It is the personal visit only that is worthwhile.

Transvaal Daisy
(Gerbera jamesoni) may be
grown in all the range
from pinky-white to yel-
low and intense fiery crim-
son-magenta. (Van Bourgondien)

Winner of the Garden & Home Builder medal—an attractive gateway planting exhibited by the Mount Vernon Garden Club

Talisman, the new Rose (Ophelia × Claudius Pernet) awarded the President Coolidge Gold Medal. (A. N. Pierson)

Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

How to Make Your Closets Moth-proof

OUR country bungalow is made of wood with no plaster—just beams and sheathing stained a soft brown. We live in it from April till November, and have been greatly troubled with Buffalo moths, which seem to thrive in wood, and get in their devastating work in the closets, when woolen articles are left outside of moth-proof bags.

The closets are thoroughly cleaned every spring before we move in, sulphur candles are burned, and a moth spray copiously used—but all to no avail. Somewhere I have seen mention of a cedar lining to put in closets to make them moth-proof. Can you give me any information? I have been a subscriber to your magazine for many years, and it has helped me often.—H. N. B.

To secure maximum protection, the walls, floor and ceiling should be covered with cedar. The inside of the door should be lined with the same material. A good grade of building paper should be first applied to the walls, floor and ceiling. Cover the walls, ceiling, and line the door with $\frac{3}{8}''$ x ($1\frac{1}{2}''$, $2''$, $2\frac{1}{2}''$, or $3\frac{1}{4}''$) cedar. Cover the floor with $13/16''$ x $2\frac{1}{4}''$ cedar flooring. After the closet is lined, the door should be weather-stripped or otherwise made to fit as snugly as possible. Do not paint or varnish the cedar. Cedar made for this purpose is tongued, grooved and end-matched so that a very tight job is assured. The material comes in one grade only. Clothing and other articles should be aired and cleaned before being stored away.

The following firms manufacture cedar for the lining of clothes closets: George C. Brown & Company, Memphis, Tennessee, and E. L. Bruce Company, Memphis, Tennessee.

For further information, I suggest that you write for the following:

Leaflet No. 134 on Buffalo Moths from Cornell University, New York State College of Agriculture, Ithaca, New York, (Dept. of Entomology).

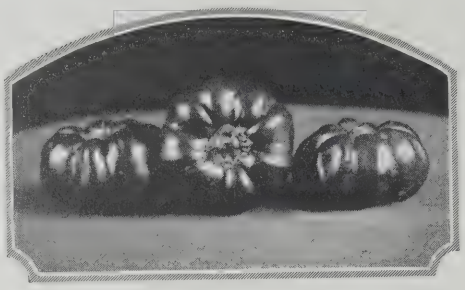
U. S. Department of Agriculture, Washington, D. C., Farmers Bulletin—No. 1346 'Carpet Beetles and Their Control' and Farmer's Bulletin No. 1353—'Clothes Moths and Their Control.'

Mr. Back of the Bureau of Entomology, U. S. Department of Agriculture, writes:

Your subscriber evidently has an unceiled and rather open summer residence. Such a house is rather difficult to fumigate successfully as a unit. Buffalo moths or carpet beetles and clothes moths are, of course, common pests, and while the most satisfactory method of control is a thorough fumigation, when this cannot be done the owner must resort to other methods not so satisfactory. The burning of sulphur candles can be made effective but the sulphur fumes developed are apt to bleach materials of value and tarnish metals and, unless burned at the rate of one pound of candles for each 1000 cubic feet of space in a tight enclosure, the results are not first class. Your subscriber can protect all woolen articles left in closets or chests by fumigating these small containers just before closing her house and leaving the closet or chest with a sufficient amount of flake naphthalene or paradichlorobenzene.

'Cedar lined closets are probably of no particular value in combating the Buffalo moth. Our tests so far indicate that the average cedar lined closet is of no special value for protection against clothes moths. It is possible, however, that exceedingly well built and new cedar lined closets are of some value.'

Please note what he says about cedar lined closets. The cedar closet if tight evidently affords some protection against the entrance of moths to the closet, but, of course, is no protection against moths that are carried in on clothing, bedding, or other articles. Moths must be killed before articles are carried into the closet, or properly disposed of after they are in the closet. The cedar closet alone will not do this. After all any tight closet will probably keep out the moths whether it is cedar or tin, or other material that discourages the easy entrance of these little insects. However, every precaution we can take to keep them out helps, and many are the preparations on the market which spell death to the little pests.—B. F. B.



Topepo, a new fruit, part Tomato and part Pepper, resembling very much the ordinary Pepper. (*See letter at right*)

The Topepo

THE name sounds almost Indian after all it is nothing but a combi tion half English half Latin; part Tomato and part of Pepper beca that, they tell us, is what the plant is. all events, it isn't exactly the same as ordinary Pepper though the fruit lo like it. It is sweet, slightly pungent, the growing plant insists on hot weat and plenty of water. If you like sw peppers to eat out of hand, try this It has quality.—Leslie Hudson.

A Spot of Color in a Sea of Gold

IN MY front yard there never had b anything but a sea of green: green gr and big old trees, and hardy shrubs o kinds. How I longed in the spring f tiny spot in which I might hoe and my hands into the earth, and plan few annuals which would strike a not color in the monotonous green.

Last fall an idea came to me after r ing an article in your magazine. R at the steps there are walks leading on both sides of the lawn. I proceede spade up a bit of the grass about one one half feet wide and eighteen feet l Into this cavity I poured much sand woods earth and as soon as it rain put out Boxwood plants three feet a Later on I secured five Nandina pl and these I put in between the After Christmas I mixed in well-r stable compost and continued to w pulling grass roots whenever I went the border.

Early in the spring I planted Petu about three feet apart, well toward front center. Later on I put Zinni the back alternating with Marigolds Old Man's Love. Snapdragons I pl in between the Petunias, and in the front I put Ageratum. Wherever was a space left, I put in a Gladiolus —S. E. Rainsford, *Augusta, Ga.*

Running Two Gardens

WITH a suburban home wher spend most of the year, and tage by the shore for July, August a part of September, the garden pr tion loomed up as a problem. I had nice garden in the suburban plac several years, but all the summer bl were wasted while we were away. the shore cottage, where I had plann 'rough it and rest' simply cried for

ing things. A tiny bed or two would give me wholesome exercise; so I ed that I would have them next and got the man who cuts the grass g a long narrow bed in front of a e by the door of the cottage.

at winter I planned my gardens, but st confess they have grown yearly, ot always according to plan! How- they are now a great comfort, and enough to manage with the help of a dy man' a day a week in the subur- garden, while the other I care for lf, with a man to cut the grass. For uburban garden, which consists of a bed, a shrubbery bed edged with rs, and a long bed, I decided on g and autumn blooming perennials a few seeds of Zinnia, Cosmos, dula, etc., planted in the spring for looming. The perennials I chose for g flowering were: the spring bulbs, Crocus and Daffodil to late Tulips, , pink and white, low plants, blossom ly spring; Alyssum saxatile (Golden- low, hardy yellow Alyssum, good g, early spring; Perennial Candy- white, May; Oriental Poppies, both nd pink, May or June; Aquilegia mbine) long-spurred hybrids, rather lants, lovely colors, June; Hardy Phlox, a beautiful blue, glorious with light Tulip, a pale yellow variety sually in bloom at the same time; usa, tall, June; Delphiniums—lots em; all shades of blue, June; Lily-of- alley, early; Bleeding-heart, because o quaint and old-fashioned; Peonies, olors, June; Forget-me-not, June; ensia, blue and pink, lovely with Tulips; Iris—lots of it, all the kinds get.

ese lovely varieties, with Roses and g-blooming shrubs, give me lots of y and color up to July, and for the have Phlox, Hardy Chrysanthe- s, Hardy Asters, and the annuals. much for my suburban garden. My ge garden is more of a problem, since not go to it until July. That is too or seeds, and how the weeds have ! Sometimes I try having the y-man-by-the-day weed it before I ere, but that is rather disastrous. On hole, I have found that sturdy- ng hardy things do best, and I try se at home and carry with me a few l seedlings such as Calendula and ia—the white and bright pink —to fill in the spaces; Hollyhocks, nd gay; Delphinium, which oblig- blossoms later down near the shore; usa, tall, July; Gaillardias, medium blossoming all summer; Lupines, and pink; early varieties of Phlox; psis for cut flowers; delicate Iceland Poppies which are gay all summer—these are the dependables for the cottage. I also have some Tiger Lilies there, and mean to try the gorgeous auratum and speciosum another year. And I must not forget my clumps of Marshmallow, beautiful with big pink flowers in August. On the whole, in spite of its late start, my cottage garden is well worth while.

Both gardens boast a wealth of climbing Roses—Dorothy Perkins, still a favorite pink; Dr. Van Fleet, with large, lovely blossoms; Tausendschön, which flowers so profusely; a white Climber whose name I do not know. No garden, of course, is complete without Roses—the more the better!—Mary Heath, N. J.

G. & H. B. Medal Winner

THE accompanying photograph is of the prize flower raised by an amateur and awarded the medal offered by GARDEN & HOME BUILDER at the flower show here last summer. The winner of this medal for the best specimen was Mrs. Barrett Wendell, of Portsmouth, N. H., and the flower is the Gold-banded Lily of Japan (Lilium auratum).

Film Bureau Photograph

Gold-banded Lily of Japan, winner, of the Garden & Home Builder prize for best specimen raised by an amateur. The prize was won by Mrs. Barrett Wendell, Portsmouth, N. H.

All the exhibitors at the flower show were amateurs except three gardeners who coöperated in making a very beautiful rock garden. Eight hundred people came to the show, and the exhibits of specimen blooms, flower arrangements, and decorations were all remarkably beautiful. The Piscataqua Garden Club intends this flower show to become an annual affair.

Thank you for the incentive your publication gives to all gardeners—Elizabeth Perkins, Secretary Piscataqua Garden Club, *York Village, Maine.*

A Platycodon 'Farm'

I KNOW of no perennial more easily raised from seed than the Platycodon, so satisfying for its color, hardiness, permanence and resistance to drought. The blue flowers come on after Delphiniums have done their best, and may be continued for a long season if the faded flowers are snipped off. Its undesirable point seems to be the haggard, draggled effect given by those same faded flowers.

The white ones with their broad clear stars are most welcome at a season when the daisy-shape tends to dominate the garden. While both blue and white come easily from seed, collected or bought, it rarely self-sows (in my experience, at least). The seedlings are quaint little things and young plants four or five inches tall are amusing for the earnestness with which each puts forth one terminal flower in the effort to bloom like the old established plants. The old plants may be found in their locations year after year and fortuitous additions are rare. One occurred in the home garden when the double blue planted its one neighbor—single this descendant was.

Great was the surprise then last fall when two of us going around the gardens planted by our grandmother stooped to look at the seed-heads of an old clump of Platycodon. They stand at the edge of the old formal garden in a row with Peonies and Oriental Poppies, neighbors of many years, and all now growing in turf, for the old beds have not been kept up. And down in the grass below the old plants we found and hailed with shrieks of joy a 'Platycodon farm.' There, in the grass, were quantities of the tiny plants, little sets of yellow leaves that had turned in color in the late fall, as had the old plants above them.

The explanation was simple. Heavy rains earlier in the summer had beaten down the old plants. Sheltered by them the scattered seeds had quickly germinated and grown in this protection, safe from blazing sun as well as from lawn-mower and gardener's rake.—Mary Johnston, *Jacksonville, Ill.*

UP-TO-DATE DEVICES

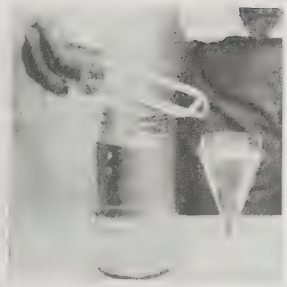
Food Carrier

The outside case of this new food carrier is made of tin, japanned green with red and gold bands, and it is insulated up to the cover. It stands 15 inches high overall, and is $9\frac{1}{4}$ inches in diameter, and is equipped with a bale holder. The inner tin holder with two handles contains four white enameled dishes, which fit one on top of the other forming covers, the top one having a tin cover of its own. The top is not insulated, so a piece of heavy oiled paper over the top of the inner dish holder does the trick, or a round asbestos mat which sells for 20 cents. ($13.50)

Tee Garter

Golfers are always delighted with a new device that simplifies life and thus allows them more time and energy to devote to the Great Game! A tee garter is a new invention: there is space for six tees, and the band is concealed beneath the fullness of the knicker. The tee garter keeps the tee in an upright position, always handy, always ready to help make a 78! No more soiled knickers from grimy hands, holes in pockets, ruined hat bands, dirty pockets, bad tempers at not having a tee, fumbling to find a tee when you are ready for the drive. ($1)

Electric Water Purifier



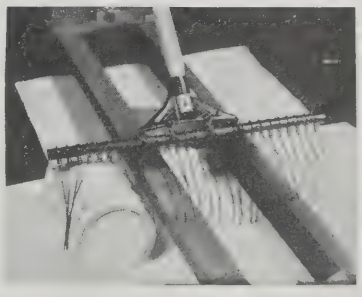
Another indispensable piece of vacation equipment is this electric water purifier at left. How often, especially when you are touring, have you wondered about the purity of the water, and either gone without or suffered visions of typhoid? The purifier may be carried with you, and may be used wherever electric current is available. For forty-five minutes of electric current use one gallon of water will be purified. A large cork in the top keeps the purifier floating on top of the water, and always at the correct depth. ($3.50)

Carved Rolling Pin

There are very few of us who when we were children didn't enjoy 'cat' or 'dog' or 'bird' or 'flower' cookies; but they were a decided treat, for it took a long time to make them, and cut each one out carefully. This generation, however, may have them oftener, for there has just been devised this carved rolling pin, which presses out the figures as it rolls the dough. There are five rows of four carved figures in each row—so the variety of patterns is large. It measures 16 inches overall and has movable handles; the rolling pin itself is $7\frac{1}{2}$ inches long, and $2\frac{3}{8}$ inches in diameter. ($1.50)

New Lawn Broom

A lawn broom with tines of oil tempered spring wire, twenty-eight flexible teeth, three quarters of an inch apart, working in the same manner as the old Japanese bamboo lawn broom, is a great find for the gardener. It is more adaptable than the bamboo, for the fine metal fingers can reach in between wires of fences, around trees and shrubbery, to pick out leaves and rubbish with almost the touch of the human hand. ($2)



Bridge Tiles

There is now a way to combine playing bridge with pleasant sitting on the beach enjoying the fresh sea breezes. For here is a deck of cards made on small tiles, which will not blow away no matter how stiff the breeze. They come, complete with racks and score cards, packed in a neat brown wooden box, which is easy to pack and light to carry. Summer hostesses will find this invention a practical addition to their bridge tables. ($5)

We are very glad to offer a shopping service to the readers of GARDEN & HOME BUILDER. Send your check for the article you wish to Shirley Paine (payable to her), care Doubleday,

FOR THE HOMEOWNER

Some New Pruners

Here's a little family of pruners that runs from 15 inches long, 1 pound weight, to 30 inches, 5½ pounds. The toggle joint and compound leverage gives amazing power so that with practically no effort any branch that can be gripped by the jaws is cut through easily. The little finger alone will work the largest tool. Both blades of the jaws have cutting edges—an unusual feature in pruners. In the largest size the gear can be adjusted according to power required. (The tool prices range from $3.00, $4.50, $6.00)

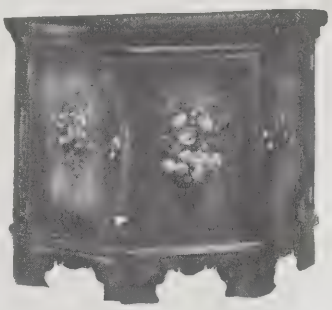
Individual Coffee Maker

For the business man or woman who gets him or herself a hurried breakfast, or for the person who travels much and is particular about his coffee, this individual French coffee maker is the thing. Simply put in the right proportion of finely ground coffee and pour boiling water over it just once—no repouring necessary. There filters through a most delectable, full-flavored coffee—a cup of real French drip coffee. There is no waste, yet always enough. (Price $2.25; extra heavy white metal silver plated drip and holder $9.50—postage 25 cents extra.)

Automobile Light

This new and very desirable automobile light is operated on the battery of your car. When the electric current passes through the lamp it magnetises the base which will then stick tightly to any metal surface. Just clip one wire to a battery terminal, ammeter post or any wire in the ignition circuit. To light the lamp all you have to do is make the other connection anywhere on the car—the best place being the emergency brake. It comes equipped with a 12 foot wire cord. ($3)

Telephone Cabinet

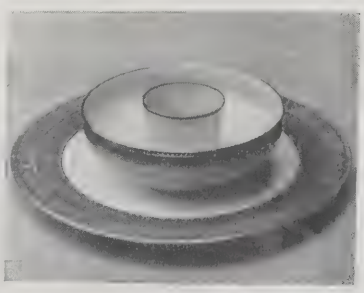


This startling and convenient piece of furniture which appears to be nothing but a good looking console table opens up to display space for telephone, directories, and stationery. Moreover, in the center there is a chair (concealed, of course, when not in use) which really converts the console table into a desk and telephone stand. It is made of birch, finished with lacquer, and is hand-decorated. Ideal for either small apartments or the larger home where you desire to conceal the telephone. ($37.50)

New Shaving Equipment

You hold this little nickel-plated machine weighing only seven ounces in one hand, squeeze the bulb, and it astonishes you by filling your other hand almost instantly with the liveliest, thickest, creamiest lather you ever saw! The primary soap bubble is increased and the resulting lather emulsified in the proportion of 3600 to 1, making a moisture-laden lather that discourages the toughest beard. ($5)

China Grapefruit Holder



Here is a new piece of china for your summer luncheon or dinner table. It is a grapefruit holder, with a bowl provided for the cracked ice, in the center of which stands what may be the holder for a fruit cocktail, or the rest for a half grapefruit or orange. By means of this the ice keeps the fruit chilled and does not melt into the food; and, moreover, the half grapefruit does not slip and slide when you try to eat it. ($75 per dozen)

Doran & Company, Inc., 244 Madison Ave., New York, and she will do the rest. If you order more than one article at a time, ***please send separate checks.*** This service is entirely without charge.

THE NATIONAL GARDEN ASSOCIATION

To Promote the Annual Observance of National Garden Week

Coöperating Societies:

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS
SOCIETY OF LITTLE GARDENS
ONTARIO HORTICULTURAL ASSOCIATION
AMERICAN IRIS SOCIETY
AMERICAN DAHLIA SOCIETY
NATIONAL PLANT, FLOWER AND FRUIT GUILD
WOMEN'S NATIONAL FARM AND GARDEN ASSOCIATION
THE AGASSIZ ASSOCIATION
NATIONAL HORTICULTURAL ASSOCIATION
THE SCHOOL NATURE LEAGUE
AMERICAN FORESTY ASSOCIATION
WILD FLOWER PRESERVATION SOCIETY

PRESIDENT:
Leonard Barron, F. R. H. S.

HONORARY VICE-PRESIDENTS:
Dr. J. Horace McFarland *Mrs. Samuel Sloan*
Mrs. Francis King *Mr. Frederick Newbold*
Mrs. Thomas G. Winter *Mr. Robert Pyle*
Mrs. John D. Sherman

NATIONAL Garden Week was observed for the fifth time this spring, bringing to us glowing reports of much excellent work done throughout the land. During the past five years the National Garden Association has stressed consistently the importance of many subjects that at first glance might not seem to belong to garden club work or National Garden Week. Among these were anti-billboard campaigns, highway beautification and roadside planting, conservation, reforestation, and establishment of parks and playgrounds, living Christmas trees and preservation of wild flowers. Fortunately, garden clubs in almost every community sensed the worth of such a broad-gauge program, with the result that these are now commonly accepted as fundamental parts of garden club work and the results of this constructive policy are appearing on every hand.

State colleges, sensing the civic value of garden clubs, are working with them, aiding by putting out many helpful booklets that are of inestimable value to all garden-minded folk. Members of garden clubs of Ohio, by writing to Victor H. Ries, Extension Specialist in Floriculture, Ohio State University at Columbus, may secure valuable booklets on perennials, roses, planting lists of trees, shrubs, vines and evergreens, wild flowers, planning school grounds, garden guide, flower-show schedules, insecticides, etc. Also they may secure a list of all the booklets ready as well as a list of books that every garden library should have.

Other states have equally helpful booklets which we shall list from time to time. In fact, it behooves every individual gardener or garden club to get in touch with, and *keep* in touch with, its State Agricultural College!

The anti-billboard campaign which we have so long advocated is beginning to bear results that are amazing. Over one hundred and forty-one firms have decided that the landscape is not necessary to any successful advertising campaign. Some of these firms have ceased to use any rural billboards and still others will not renew their contracts when they expire. When such national advertisers as the National Biscuit Company, Armstrong Cork Company, Congoleum Nairn, Inc., Mohawk Carpet Mills, Inc., Cluett, Peabody & Company, Colgate & Company, Swedish State Railways, Fleischmann, Kelly-Springfield Tire Company, Orinoka Mills, most of the big automobile, food, soap, and clothing companies in the country, have agreed to discontinue billboard advertising at the expiration of present contracts, the success of this movement may be judged. 'Several ways to ameliorate the rural billboard nuisance seem to be opening up,' says the National Committee for their restriction. 'Taxation, prohibition within given distances of corners, curves, etc., and zoning the highways.'

In order to secure folders and other material to enable any club to prepare a campaign and thus be ready ahead of time for the important year of 1929 when legislatures meet in most of the states, write to the National Committee for Restriction of Outdoor Advertising, 119 East 19th Street, New York City. This is work that concerns every home owner and even the casual tourist who is interested in seeing the beauties of the country he is travelling through instead of looking at hideous billboards!

How to Judge Flowers, Vegetables, Fruits and Lawns

A very helpful booklet has been issued by the United States Department of Agriculture. This has been prepared for garden clubs and all clubs or individuals interested in promoting flower shows, lawn contests, etc. There are schedules in the booklet for judging flowers, classification of flowers and vegetables and special points given for the various flowers. There are also diagrams of tables and helpful directions for arranging them. This booklet, Department Circular 62, may be had on application to the Department at Washington. 'The Forest & Health,' a companion film to 'The Forest and Water,' has been issued by the U. S. Department of Agriculture. To secure these, address: Office of Motion Pictures, United States Department of Agriculture.

At this season of the year one of the most important topics for discussion of all garden clubs is 'How Can We Help With Reforestation?' In an announcement recently made by G. A. Lawyer, former Chief United States Game Warden and now Managing Director of the New York Development Association, Inc., we read: 'BILLION TREES TO BE PLANTED—FOOD FOR GAME BIRDS AIM OF STATE ASSOCIATION. Berry-bearing trees and shrubs are to be grown and distributed free by the New York Development Association, Inc., from its own nursery for planting by sportsmen's clubs and others, to provide food for game birds on all large areas to be reforested in this State.

'The Association's program contemplates the planting of a billion trees within the next fifteen years and the planting of one hundred million trees annually thereafter until the four million acres of idle waste lands in the state are reforested, and includes the planting of a liberal supply of berry-bearing trees and shrubs and hardwood trees, such as beech and maple, to furnish summer and winter food for the birds.'

Among the interesting announcements reaching our desk we find word of a new club organized in Chicago by L. W. Nash who was one of the founders of the Public Utilities Garden Club of that city which had membership of about 20,000. The new club is a men's club composed of men interested in home gardening and creating great beauty in the city and in the suburbs.

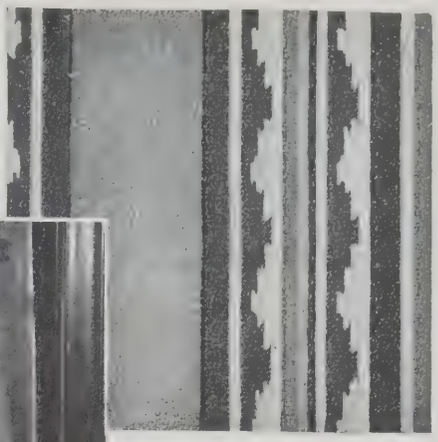
One of the activities urged by the Association is the planting of living Christmas trees. Entering whole-heartedly into this work is the Kansas Association of Garden Clubs, that efficient group of clubs which though not two years old publishes its own magazine and is intensely alive to the importance of conservation, having a special Living Christmas Tree Committee, urging that every home owner be patriotic enough to plant an evergreen.

For free constitutions, programs and by-laws for Garden Clubs, address the National Garden Association, Garden City, Long Island, N. Y.

Ellen D. Wangner, Secretary

TIVE CLOTH, *hand-printed*
ndia from a primitive de-
. Its irregularities of weave
color make it fascinating
draperies or upholstery. A
iety of colors and patterns

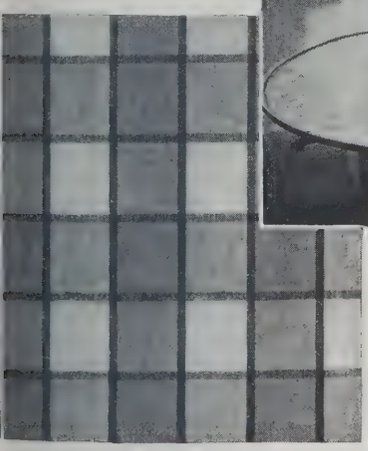
FOR SMART CURTAINS—*theatrical gauze with motifs of simulated crewel-work. You may have it embroidered to your order in the colors and patterns of your choice*

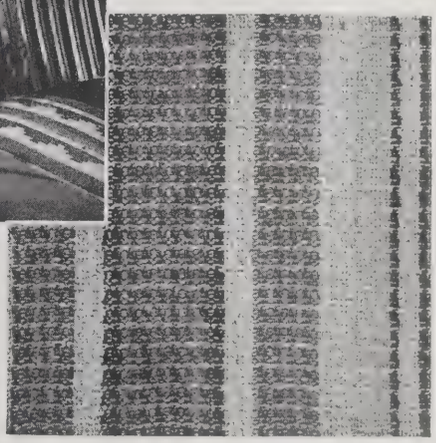


AN AZTEC *stripe in sturdy jute, a material much used now by Rodier for drapery fabrics. Natural color ground with crimson, vert, poppy, lacquer or jade stripe*

TOILE NORMANDY *in the*
design so liked with
ich provincial decoration.
with yellow, orange, black;
with gold or black; and
many other combinations

FOR CUSHIONS *and upholstery with willow-ware and reed, a hammock-striped linen. It is voguishly loose-woven in bright colors, combined with natural and black*





Colorful . . and not Costly

these fabrics for smart summer homes

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YOUR GARDEN IN JUNE

T. A. WESTON

In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind; Quincy, Ill., Denver, Colo.

THE winter of 1927–28 while so open and free from spells of violent weather, was not kind to everything in the garden. The intermittent frosts, one of them well below zero in northern New Jersey, played havoc with some subjects; indeed, the losses among plants in my borders were heavier than I have known in the past eight years, due to the freezing and thawing which literally strangled the life out of such things as Potentillas, Geums and not a few other plants that hold most of the foliage. Where given the protection of frames such plants suffered no hurt, but in the open, though covered by straw, a sad state of affairs was apparent. And for no explainable reason, too, some of the tiny seedlings in the frames, darkened though they were, were massacred. But against this we had the satisfaction of finding that the Sweet-peas sown in pots in early November, and which before the frames were covered were 2 inches or more tall, came through almost 100 per cent; ordinarily they do not pull through nearly so well.

Not the Time to Take Things Easy

While June is not the accepted time for preparatory work, such as digging, tree-stump pulling, rock heaving and the like, there is no reason why it should not be done if there is vacant land to be planted at some future date. The possessor of a complete garden can from now on take things more or less easily, but the owner of a garden that is only partially finished, need never wonder what he shall do to kill time.

Weeding and Hoeing

And what are the regular jobs to be done in June? Weeding and hoeing as a matter of course. The rockery will, like the rest of the garden, have its weeds and the hoe is not a tool that can be used. It is a case of fingers and trowel. The borders, the rose beds, and the vegetable plot can be dealt with more expeditiously. In the flower beds the ubiquitous Dutch or scuffle hoe, can do better work than any other tool and if the soil is not hard, it is equally as serviceable between the vegetable rows for it allows no weeds to remain as the pronged cultivator is apt to do.

Dahlias and Gladiolus

The early part of the month is as good a time as any for planting Dahlia roots. By this time one can see for a certainty, which are going to grow. Not infrequently some roots that appear sound have not the needful eyes to sprout; even the professional grower sometimes makes a slip when dividing his roots and one gets a division that is about as useful as a chunk of wood. Personally, I like to put my roots in a frame some time in May, where with a little soil among them, they can sprout strongly and then be divided. At this time, too, the shippers of green plants are making deliveries. Having been hardened off, such plants can be planted right away and, as a general rule, they will make rapid progress; stunt disease being less troublesome than with old roots.

Another batch of Gladiolus can be planted early this month to be followed by the final batch at the latter end; if the quick-flowering sorts are saved for the last planting, they will all bloom before frost and be especially welcome because most other people will have none. Cannas, too, are now safe for planting and for a bold show of color, few things can equal them. Strong plants from 3-in. pots will, if the weather is right, grow amazingly fast and be blooming from July on. Last year Cannas were not a great success, they like heat and water.

Watering

In a normal June watering is one of the essentials. Through natural evaporation and the growth of the plants, the soil will have lost most of the moisture it had stored up and water can, hose, and sprinkler will have to be in constant action if the weather is as it ought to be. The overhead sprinkler pipes, especially those of the portable type, are a great asset to the garden for they can be shifted from place to place and be depended upon to work efficiently, which is not always the case with whirling sprinklers and other contraptions that may fail at an inopportune moment.

Fertilizers May Be Used

Borders and rose beds will benefit by a light dressing of a good quick-acting fertilizer applied as directed by the makers and stirred into the surface of the soil, such stimulants will soon have effect. If the ground has been well enriched with stable manure or other organic fertilizer it may not need more than a very light dressing of nitrate of soda. Nitrogenous fertilizers must be carefully used and never be allowed to touch the plants. The synthetic nitrates, as manufactured from the air, should not b used dry; they are to powerful and are onl safe in liquid form an *never exceed* the recom mended strength a their nitrogen conten is infinitely greater tha that of nitrate of sod or sulphate of ammoni On the rose beds a dos of sulphate of potash, one ounce to th square yard, should be used two or thre times during the summer; this will counte act the softening powers of nitrate, an make the foliage tougher and less sus ceptible to disease. Never use potash i excess, however, for too much of it check growth. Its action is to cause fruitfulnes of everything and that means curtailmen of growth in fruit trees as well as every thing else that grows. Superphosphate o lime can also be used to some advantag Three or four ounces to the square yar applied at this time being sufficient t provide the needed phosphates for th rest of the season. Violas and Pansie will respond to a little nitrate at this tim

Lots of Things to Plant

Early in June the gardener, as a resul of sowings in April and May, will find necessary to transplant many seedling The frame-sown annuals, if not alread thinned or pricked out to permit growt will soon have to be shifted. The pe ennials, too, will have to be spaced ou into beds or somewhere where they ca develop. This includes biennials lik Canterbury-bells, Foxgloves, etc.

Do not Neglect the Vegetable Garden

In the vegetable garden there is wor to be done. The various greens for la summer and fall use will soon be larg enough to go into position. The earl Peas will provide some room for thes and if the rows of later Peas and Bean are far enough apart Savoys, Brusse Sprouts, etc., can be planted betwee Strong early sown Tomato plants will b in fine shape for planting out early th month, and if space is limited give the only 15 inches apart and keep to sing stems. There are lots of things that ma be sown early this month. Melon Squashes, and Cucumbers sown outsid will, if the weather is right, be little any behind those started in a fram earlier. Corn sown now will assuredl come in; and, if the conditions are righ seed of Lettuces and Radishes will hav a chance to make some progress befo the real summer weather arrives. Bean may be sown at intervals for sever weeks. At this time the Onion rows w probably be fit for thinning and th thinnings will prove (*continued on page 40.*

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LANCASTER FABRICS

★

FAMOUS *Citizens* of the Early Republic *were entertained in this* Assembly Room

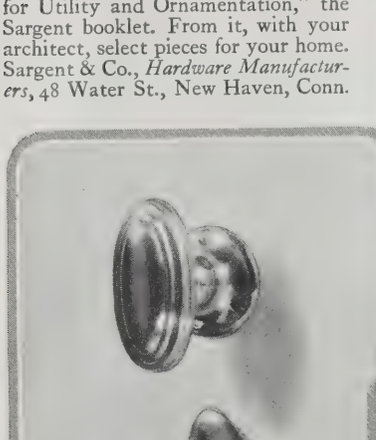
For this Colonial door, as for any style of door, there is correct hardware by Sargent

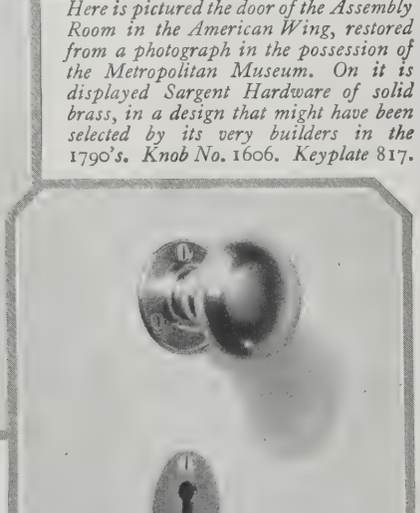
THE Assembly Room of the City Tavern in Alexandria, Virginia, is rich in historic memories. Here, Washington danced. Here, Lafayette dined. This room is rich, too, in its furnishings from the hands of Colonial craftsmen.

In the Metropolitan Museum are 17th, 18th, and early 19th century interiors of interest to those who build in Colonial or Georgian tradition. For these, as for all house builders, Sargent manufactures solid brass and solid bronze hardware of authentic designing. Gleaming brass knockers and handles for entrance doorways . . . strong, solid rim-locks and complete sets for interior doors . . . these may be obtained. Hardware exactly machined and precisely fitted. Made for generations of certain, quiet use.

Write for a free copy of "Hardware for Utility and Ornamentation," the Sargent booklet. From it, with your architect, select pieces for your home. Sargent & Co., *Hardware Manufacturers*, 48 Water St., New Haven, Conn.

Here is pictured the door of the Assembly Room in the American Wing, restored from a photograph in the possession of the Metropolitan Museum. On it is displayed Sargent Hardware of solid brass, in a design that might have been selected by its very builders in the 1790's. Knob No. 1606. Keyplate 817.





No. 1982 (shown above) is a Colonial knob, similar to one used in the Marmion Room of the American Wing. With it ask for keyplate No. 811. This plain, round brass knob (at right) with its simple keyplate would also be correct on the door above. The keyplate is No. 711. The knob is No. 1602 in the book of Sargent designs. These are but two of many designs by Sargent.

SARGENT
LOCKS AND HARDWARE

Your Garden in June

Continued from page 402

useful for salads. After this is done, mix a little kerosene with peat moss or sand and sprinkle along the rows; it will do much to prevent the pesky onion fly from laying its eggs and no eggs means no maggoty onions.

Odd Jobs

Around this time is when to think about pinching back the growths on the fruit trees. Fruit buds for the following year are formed in June, not during the winter. Therefore by pinching or cutting back half way, the lateral growths of Apples, Pears, Currants and Gooseberries, you are more likely to encourage the basal eyes to plump up for fruit t if you leave them and then cut bac the winter. Of course, new shoots start after this cutting back, but not lowest eyes. Spray all fruits regul for aphis is sure to be active, and to caterpillars use arsenate of lead.

Privet hedges will benefit if they clipped back, don't allow them to g too much or the wood will harden be more difficult to sheer off later.

By the end of the month most of Tulips will have finished growth. S lifting and put the bulbs either in t or bags, storing where they can be dry and get plenty of air.

Your Garden on the Pacific

ELIZABETH URQUHART

EACH season and each month brings its own special work, not only in the way of planting, but in the care and treatment of plants that have bloomed and those that are yet to flower. As the blossoms fade and begin to form seed, they should be removed and in some cases cut down to the ground so that a second blooming may be possible, and even if a plant does not bloom again this year, it will be all the stronger if not allowed to mature too many seeds. Reserve the best blossoms for seed, cutting them off only when the seed pods seem mature. In the case of Alyssum, Coreopsis, Calliopsis, Delphinium, and Nepeta mussini the plants may be cut down and will spring up again and bear a second crop of blossoms. The Nepeta mussini is an interesting little plant which flourishes in dry locations and is very satisfactory for borders and ground covering. It belongs to the Catmint family and bears lavender flowers. The seed from the first crop of Delphiniums will be the finest, and may be sown as soon as ripe and so make an early start.

From the Alpine or rock plants that have bloomed, cuttings may now be made as well as from the Sedums other succulent plants. It is well to come acquainted with the large and teresting Sedum family which ra from small creeping specimens to tall varieties with broad leaves large blossoms. The succulents inc the Sedums, Cotyledons (Echeve Sempervivums (Hen-and-chickens Crassulas, as well as the great Ag (Century plants), Aloes, Cactus, Me bryanthemum (Ice-plant) and n all of them may be increased at this by cuttings, except the Crassulas Cotyledons. They all like a warm, sheltered situation and require little water.

All the spring deciduous sh should be pruned now; they bloo the second year's wood and the bloo shoots of this year must be rem The California Christmas Berry (tinia or Toyon), although an ever should also be pruned now, as blooms on the second year's woo grown as a hedge, it is best to pru every year alternately—the sides year and the top the next year, so insure the berries.

Your Garden in the South

ETHEL HUTSON

Prepare for Fall

THE spring flowers are fading, making the beds and borders look shabby, and it is time to think and plan for the fall. Families leaving home for vacation trips ought to sow seeds that require little attention, or set out small shrubs which need little else than the rains to keep them going until the family returns to spray and care for them. Palms can be set out in June better than any other month, and a great variety do well throughout this section, growing rapidly.

Where avenues or long lines of Palms can be used, Washingtonia filifera, Washingtonia robusta, Sabal palmetto, and Phoenix canariensis are recommended. If for a specimen planting for lawns or in the center of Parkways, use Cocos australis, Chamaerops humilis, or the so-called Sago Palm (Cycas revoluta). Phoenix dactylifera (the true Date Palm) bears in this section, but is inclined to make so large and bushy a plant that it is not recommended for small grounds. It can be trimmed up by taking off the suckers, but is more beautiful if allowed to form a mass of foliage.

Fall-Blooming Shrubs

Malvaviscus conzetti, Altheas, corymbosa (known locally as G Shower), Hibiscus, Clerodendron ranta, Buddleia, Lantana, and bago will be blooming until fros should be put out this month i are not already in the garden, so will be flowers when the family re Small plants are safer to plant large ones, and even these shou covered during the hot part of th until well established. Some heat- annuals can be planted now fo summer and fall blooming. Tore one of the best of these, as ho weather does not affect it in the The flowers are as pretty as Pansies.

Browallias, Petunias, Zinnias, Globe Amarath and Argemone (M Prickly Poppy) are also show stand the heat well. Portulaca, i in the open, should be protected rain and not watered until well they are hardly more than hairs young. They are invaluable for cc a newly filled driveway or other where a low-growing plant is nec

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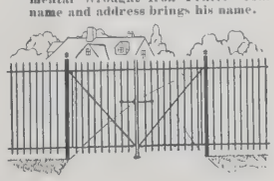

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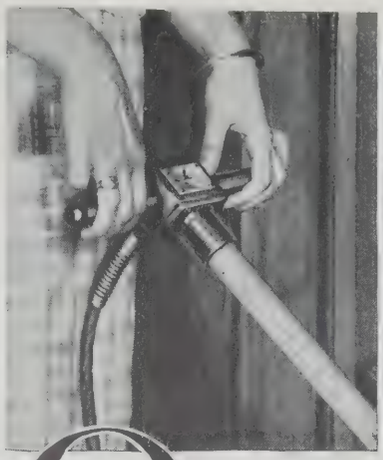

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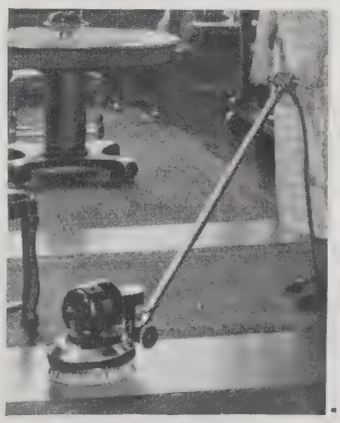
"Oh no!" you say, "Not my floors!" Oh yes, we answer, *your* floors, ANY floors. The most neglected floors have possibilities. Layer upon layer of old shellac and varnish may disfigure them. Year upon year of ground-in dirt may seemingly defy removal. Yet underneath there is the clean and honest wood—the hidden warmth and color of the grain.

"But the expense?" you say. "I've had them give me estimates. What about the hundreds of dollars refinishing will cost me?" This advertisement offers you a way to overcome that difficulty. It calls your attention to the most remarkable machine ever made for household use—a machine that refinishes floors, scrubs floors, polishes floors—a machine that costs but a fraction of what you usually pay for *one* refinishing job. With it you yourself refinish floors with ease. The apparently impossible job of taking off the old shellac and varnish becomes absurdly easy. The manifestly back-breaking jobs of sand papering and rubbing in new wax turn out to be a matter of merely guiding a machine. And these jobs only need to be done *once!* A few minutes' waxing and polishing each week with the machine, an operation so simple that a child can master it, *keeps* your floors looking always as though they had been refinished the day before.



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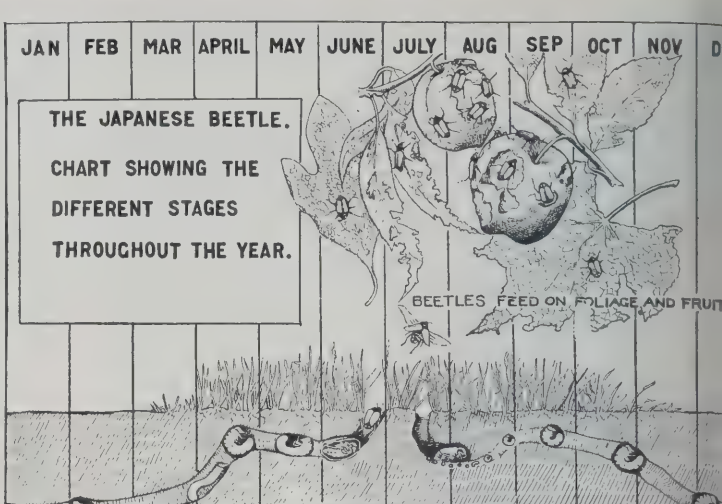
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GRUBS CONTINUE TO FEED IN SOIL AND GROW RAPIDLY
GRUBS GO DOWN 3 to 12 INCHES MAKE WINTER

Life-cycle of the Japanese beetle

Freeing the Lawn from Grubs

Continued from page 388

chemical used in spraying shade and fruit trees, vegetables, etc. for the control of leaf-eating insects. It can be purchased at most seed stores and dealers in agricultural supplies. The chemical is not an expensive one, varying in price from 15 to 50 cents per pound depending upon the quantity purchased.

The chemical is applied at the rate of 5 pounds to each thousand square feet of lawn treated. In applying the arsenate to the turf it is not advisable to spread or dust the chemical onto the grass because it is a light and very fluffy powder and is easily blown about by the slightest puff of wind with the result that the arsenate goes everywhere but where it should go.

Probably the best method of application is to first mix the chemical with a quantity of moist (not wet) sand or screened soil. Clay or heavy loam is not recommended as it is apt to lump. The amount of soil or sand to be mixed with 5 pounds of arsenate of lead (for application to 1,000 square feet of lawn) is optional but a workable mixture is two bushels of soil or sand to 5 pounds of lead arsenate. A concrete floor is best for this job of mixing. Take one-half bushel of the soil or sand and spread it out on the floor about an inch deep. Now spread the 5 pounds of arsenate of lead evenly over this layer of soil. Take a spade or shovel and mix the two thoroughly. Spread out the mixture an inch thick on the floor and add another half-bushel of soil, making the layer two inches thick; mix again thoroughly with shovel or spade and spread the resulting mixture 2 inches deep on the floor. Now add the remaining bushel of soil or sand and mix thoroughly again. The material is now ready for use.

HOW TO APPLY IT

It is best done by sowing with the hand just as one would sow seed or fertilizer. The average amateur gardener should prove capable of a job of this sort while the professional gardener will of course experience no difficulty. Remember that no matter what method you follow in applying it to the lawn the idea is to spread the two bushels of material *evenly* over the turf.

The arsenate is best applied as above when the grass is dry. In other w do not apply immediately after a or when the grass is wet with de may be put on lawns at any seas the year when the soil is not fr If grubs are present and are inj the turf, apply arsenate immedi and in a short time the turf injury cease. If grubs are not present but have reason to suspect an impendin festation of white grubs or Japane Oriental beetle grubs apply the arse of lead during the early part of J or as soon thereafter as possible. applied at this time the lawn is proofed before the season of egg-l by the various beetles begins. If a b does lay eggs in turf so treated the hatching from these eggs will be by the arsenate present in the Earthworms have proved to be susceptible to arsenate of lead and activities gradually cease in tu treated. The more objectionable mon weeds, such as Chickweed and grass, do not like arsenate of lead. is an especially fortunate fact en apparent to anyone who has tri remove the matted, creeping grow this type of weed from fine turf—a tically impossible thing to do wi leaving bare spots. The applicati arsenate of lead to the lawn will weeds of this type to gradually sicke die out, whereupon the fine turf gr stimulated by the arsenate, cro and fill up the space formerly occ by weeds.

Five pounds of arsenate of lead u suggested above, will grub-proof a for at least one year and probably although in June of the second ye each year thereafter it is advisa apply 2 pounds of arsenate of lea 1,000 square feet of lawn, followi general mixing and application tions given above.

The care of a grub-proofed lawn different from the care of any othe except as to fertilizers. Use only rotted manure and ammonium s or cottonseed meal on turf treate arsenate of lead. Avoid comm fertilizers containing nitrate of acid phosphate or potash since th act on the arsenate of lead and dest grub-killing properties. Also apply to turf already treated with ars

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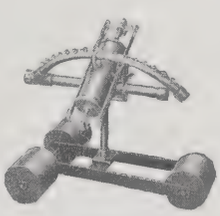
Lawns, borders, shrubs, flowers, gardens, tennis courts—in fact everything that needs water—shows an amazing improvement when watered with some form of Skinner System—overhead, concealed, buried, permanent or movable.

Tell us what you want to water. And write for booklet, "Rain—for the Asking"—sent free. You'll read this booklet from cover to cover. Be sure to send for a copy.



RAIN WAVE

Miniature Skinner System — oscillating sprays — fed by hose—covers 2500 to 3600 square feet. Price $35 money-back guarantee

SKINNER SYSTEM
OF IRRIGATION

THE SKINNER IRRIGATION COMPANY
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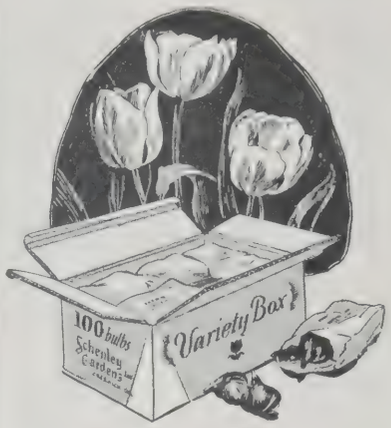

Variety Box

100 Lovely Famous Darwin

TULIPS

Twenty well known named varieties, chosen for giant flowers, long stems, richness of tones, and color harmony. All will blossom together in May. Guaranteed to live and grow, true to type, true to name, and in vigor and beauty exceeding your expectations.

Your order for these bulbs will be your personal import order. On July 1, all our advance orders are taken to Holland to be filled with "top quality" bulbs from the new crop. Our prices, which include only cost, plus a commission or service charge, are therefore good only for orders that reach us before July 1. Over 16,000 clients annually act on this plan, including some whose gardens are famous.

100 bulbs **$3.50**
50 bulbs $1.90

1000 bulbs $33.50-500 bulbs at the 1000 rate

Bulbs will come to you early in the autumn, at the proper time for planting, with clear directions. They will be shipped carriage prepaid if remittance accompanies the order. With charge orders, please send reference.

Choose Your Own Colors

Choose from the colors as listed below. Order as many bulbs as you wish, of the colors preferred. Each color will be packed separately and labelled with name and color.

Vivid Rose	Scarlet
Violet-Rose	Orange-Scarlet
Salmon-Pink	Salmon-Scarlet
Deep Pink	Rosy Carmine
Silvery Pink	Cherry Red
Crimson	Oxblood Red
Dazzling Vermilion	Purple-Maroon
Lavender Violet	

Bright Rose with Blush Margin
Lilac Rose edged with Silver
Lavender Margined with Yellow
Buff Tinged with Gold
Bright Canary Yellow

Our Complete Catalog lists and describes over 600 different bulbs, including fine assortments of Lilies, Peonies, Iris, etc. Supreme quality at reasonable cost. Everything guaranteed to bring satisfactory results. Copy mailed on request.

Schenley Gardens Inc.
CHESWICK, PA.

Trade Mark Registered

Wilson's O. K. Plant Spray

For *your* flowers . . .

It's no secret. Everbody wants lovely, healthy plants, flowers, shrubs and evergreens . . . and everybody may have them! You must, however, assist Nature to the extent of keeping them free from destructive insect pests. To achieve this result Andrew Wilson has produced for you, after more than twenty years of scientific research and experiment, *Wilson's O. K. Plant Spray*—which, because of its marked ability, has become nationally recognized as the standard insecticide for all the common flower and garden pests. *Wilson's O. K. Plant Spray* is used by superintendents of large estates and prominent florists throughout the entire country. Powerful, yet will not burn the most tender of plants . . . harmless to humans . . . clean . . . easy to apply . . . equally effective out-of-doors or under glass. What it has done for others, it will do for you!

Order your requirements for Summer now!

1 quart *$1.00* 1 gallon *$3.00* 5 gallons *$12.00*
10 gallons *$20.00* 25 gallon drums *$50.00*

Wilson's Weed Killer

Kill weeds the Wilson way . . . simply dilute *Wilson's Weed Killer* (1 gallon to 40 gallons of water) . . . and sprinkle . . . that's all. The modern way to exterminate all weeds, poison ivy, vines, etc. One good application a year is sufficient. Inexpensive . . . clean . . . odorless.

1 gallon *$2.00* 5 gallons *$8.00*

Wilson's Rhody-Life

This is a preparation (not a fertilizer) for making the soil acid, or in other words ideal for growing Rhododendrons, Azaleas, Laurels, Pines, Spruce, Blueberries, and other acid-loving plants. *Wilson's Rhody-Life* may be applied at any time. 100 pounds *$5.00*, 1000 pounds *$45.00*, 2000 pounds *$85.00*. Try it—and watch the results!

ANDREW WILSON *products are sold at most leading seed, hardware and department stores everywhere. If your dealer cannot supply you, we will be glad to fill your order direct upon receipt of price. Use this coupon.*

Andrew Wilson INC.

Dept. A

SPRINGFIELD NEW JERSEY

Andrew Wilson, Inc., Springfield, N. J.
Gentlemen: Attached is check for $..... Please ship the following:
..... Wilson's O. K. Plant Spray
..... Wilson's Weed Killer
..... Wilson's Rhody-Life

NAME.....

ADDRESS..... A

Blazing the Color Trail At Home

Continued from page 370

the lacquer the brush should hold as much of the material as it can without dripping. Do not wipe the brush against the edge of the can but rid it of the excess by allowing the drip to fall back into the container.

(3) *Brushing lacquer should be flowed on and not brushed out.* After free application brush in one direction only and just sufficiently to equalize the coating; the lacquer will level itself.

(4) Never try to brush back over imperfections with a dry brush. Always use a full 'wet brush,' or better yet, obliterate the imperfection with a second coat over the entire surface.

(5) To avoid laps completely finish each unit in the given article painted. For example: in applying lacquer to a chair completely coat each rung or leg as a unit before starting on the seat or backstays.

(6) In lacquering a floor, brush along the shortest dimension in narrow strips working always from left to right.

(7) Whenever possible, work the surface in a horizontal position. In applying brushing lacquer to vertical surface, say the sides of an automobile, always finish or 'lay off' with a downward stroke of the brush.

(8) Never recoat in less than one hour.

(9) Upon completion of the application the brush should be thoroughly cleaned out in lacquer thinner.

COATS FOR VARIOUS SURFACES

(1) For refinishing any surface in a solid color one coat of pigmented brushing lacquer is usually sufficient where the color is white or a tint when two coats will be nec

(2) All new wood surfaces sho ceive two coats.

(3) Lineoleum and floors coate clear brushing lacquer should two coats.

(4) Natural wood finishes can by using lacquer stains. If two co used and it is decided that the fi kept light in color the secon should be of clear lacquer. In usi quer stain where it is desired to from a dark to a light color a buff-colored lacquer undercoat be applied prior to finishing wi lacquer stain.

APPLYING ART FINISHES

Care should be taken that th or pottery is cleaned. Apply th color of brushing lacquer with a and as this is beginning to set u on the various blending colors, teaspoon or spatula, so that these drain to the base of the object decorated. Lacquer thinner along the junction of the boc blending colors before these h hard will produce most artistic The excess material which coll the base of the object may be r with a brush. The effects obtai the above procedure are natural able, a good deal depending on t combinations used and the in of the one who applies the lacqu

Wallpapers Rejoin the Fashion Parade

Continued from page 373

to other handsome papers with large patterns, especially reproductions of old chintz, brocades and India prints. Such panels are, of course, always finished off with a narrow strip of molding and are frequently covered with one or two coats of white shellac. Indeed, many of the modern papers gain in beauty and softness if shellaced twice and antiqued, in between the coats of shellac, with brown tube paint rubbed in lightly with a rag.

The woman who decides to paper her walls, rather than to paint them, has immediately solved some of her decorative problems and opened up others. Paper pulls a composition together. If correctly chosen, it gives an air of liveableness and warmth to a room, even before a stick of furniture has been added. If wallpaper has a large and conspicuous design, it does away with the necessity for pictures. It determines the color scheme; its background, for instance, may be followed in darker shades in the rugs, its stronger colors in the upholstery and over-draperies, and its lighter, brighter colors in lamp shades and other accessories.

Paper, especially in the sophisticated color combinations of to-day, should be chosen by daylight, not in the artificial light of some establishments.

Wallpaper should be adapted to its surroundings in three respects: in color, in the character and scale of the design, and in texture. Large rooms with few furnishings demand papers strong in design and of warm, fairly dark colors, a treatment which makes the room seem smaller and less bare. For small rooms rather cut up, such as entrance or stair halls, a foliage or landscape p light tones of gray, tan or crea berry, green or blue on a white adds perspective and increases parent size of the room. Scenics i may also be used effectively in h

Stripes give height to a lo though one should exercise judg their selection; if too wide a used in a room with many do windows, the effect will be th picket fence. A design running d up and down, such as vines o branches, is also good for t ceilinged room.

To unify a small room where ceiling cuts into the wall, use s signs in light colors without a n 'up and down' and carry the pa the ceiling. In too high rooms th paper or color should be carri the side wall about a foot and where a paper binder or simple should be used to cover the A border may sometimes be high rooms or to outline an arc ceiling breast of interesting tural design. In rooms with chair rails, where two different paper are used, the lower pape always be the stronger, both in c design.

The flesh tones so popular no look well with mahogany wood fact, light, airy colors and de most never look well with dar work of any kind; they are have a washed-out appearanc in a room of this kind should an effect of weight either by the the scale of the pattern.

Your Wallpaper Sets the Keynote

IN modern decoration, wallpaper sets the keynote. Its infinite variety of coloring and design offers the home-owner unlimited opportunities for the expression of taste and personality.

Wallpaper will help you accentuate the best features of furniture and architectural detail. And, wisely chosen, it will help you overcome any possible defects of an interior.

To aid you in your choice of papers, the Service Committee of the Wallpaper Manufacturers' Association is now offering *Selected Wallpapers,* a handsome portfolio, carefully planned to give the most practical help to home-owners. It includes full-color illustrations of a number of charming interiors, as well as twenty-five actual samples of representative wallpapers.

These papers are widely distributed so that they should be readily obtained through any dealer. The range of price, design and coloring is broad enough to permit an appropriate choice for practically every room in any type of home. In using any design included in this portfolio, you are assured of obtaining a wallpaper that will give you good style and good value for your money.

If you have need of further aid in working out any problem of interior decoration, the Service Department of the Wallpaper Manufacturers' Association will be glad to help you with definite suggestions covering your specific requirements. This service is more fully described in the portfolio, *Selected Wallpapers.* A copy will be sent to you promptly on request.

The YORKTOWNE, shown below, is one of the charming designs included in *Selected Wallpapers.*

WALLPAPER
MANUFACTURERS' ASSOCIATION
of the United States
461 Eighth Avenue New York

158 E P

Wallpaper Manufacturers' Association
461 Eighth Avenue, New York, N.Y.

Send me your Portfolio of Selected Wallpapers for which I enclose 10 cents to cover mailing cost.

Name .....

Address .....

REMINISCENT of the hushed richness of the Petit Trianon, which Louis XV erected for La Comtesse Du Barry, this bath and dressing room of exquisite dignity is for homes decorated in the manner of late French Renaissance. A felicitous touch is the citrus yellow of the *Elegia* lavatory and *Tarnia* bath, so admirably harmonious with the color of the canvased walls. The shower enclosure of crystal glass is curtained and valanced in *Aqua-Silk* in the color note of the mouldings. Other rooms, both elaborate and modest, are illustrated and described in *New Ideas for Bathrooms.* The work of eminent architects and decorators, each bathroom is practical, beautiful, and different. The book is gladly sent for the asking. Or consult any responsible plumbing contractor.

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at Exceptional Figures

g primarily a "hobbyist" I gather choice and rare
ts from all over the world, much the same as an
collector gathers rare works of art. But as plants
multiply, I am willing to divide my surplus with
r flower lovers on the most favorable
ns: I have more than 1000 choice var-
s of Iris alone. Every one is a real
; I would not give space in my gardens
nything but the best. Here are some
ne bargains I am offering:

Collection No. 1

PLANTS in ten extra choice varieties of Bearded
all quite distinctive and different from each
r, all properly labeled, my selection, plants that
ld cost 50c. to $1.50 per plant if selected separ-
y. 20 PLANTS for **$5.00.**

Collection No. 2

PLANTS assorted, choice Bearded Iris in many
rent varieties, my selection, without labels for
00.
(As I have only choice varieties, you are sure
to be pleased with this Collection.)

Collection No. 3
SIBERIAN IRIS

ny eminent authorities consider these the finest of all Iris. They are easy to grow by the
rside or in the garden, and are good for naturalizing. Free flowering and exquisite for cut
ers. **10 Snow Queen (the finest white), 10 Blue King (a gorgeous blue), 10 of
ther variety, my selection. TOTAL 30 PLANTS, all properly labeled, for $6.00.**

Collection No. 4—DWARF IRIS

cially adapted for the Rock Garden, each a miniature jewel. They bloom just after the
us have finished blooming. 20 PLANTS in five varieties, my selection **$5.00.**

Collection No. 5—INTERMEDIATE IRIS

selection blooms just after the Dwarfs and finishes blooming just as the Taller Bearded
begin to bloom. They come in the early Spring just when flowers are most appreciated.
e very choice varieties will go into this Collection. 20 PLANTS in five varieties, my se-
on, all labeled for **$5.00.**

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MAKES grass cutting a pleasure. twelve-year-old boy can do a erfect job. Capacity 4 to 6 acres er day. Cuts closely around trees, rubbery and flower beds. No nd trimming required.

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Glaze it with the new Ultra Violet transmitting glass, and you have a regular health resort where you can get honest to goodness tan in mid-winter.

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With a Rain King Sprinkler you will make it bloom like an Eden. Cloud-mists on seeded beds and blooming flowers; dense, gentle soaking spray on grass and plants and a drenching downpour on shrubs.

These and limitless other variations all come from the patented Rain King. Its easy adjustments give you quick and complete control. Not only whirls, but can also be set stationary with two different kinds of spray at once, as pictured. Only sprinkler that does it!

Yes, it throws more water and throws it farther than any other sprinkler on the same pressure. Yet can be cut down at will to save as much water as you like, or to sprinkle the smallest plot.

Runs on bronze bearings as smoothly as a fly-wheel. Has brass nozzles. And you can't wear it out in a lifetime. Gives a fo ntain-like play to water—it's an ornament you'll be proud of on your place.

No other Sprinkle- is like the patented Rain King. So tell your hardware or seed dealer yau want to see this creation. If he can't supply you, accept no second best, bu send price to us and we'll forward model you want on money-back appoval, prepaid.

Only Sprinkler That Does All These Things

1—*Revolving Spray for Lawn or Garden*

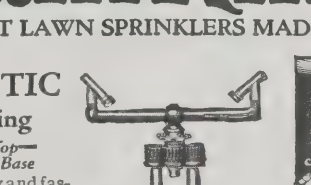
2—*Wide Spray (stationary position) adjusted to sprinkle narrow strip*

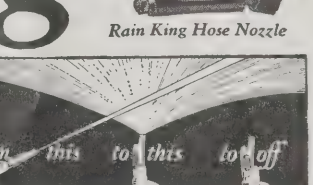
STANDARD Rain King $3.50

Denver and West $3.75

All sprinklers in one. Gives you quick and complete control of Stream, Spray, Distance and Direction. Each brass nozzle is a complete Sprinkler, hence plays any two streams in 1 or 2 directions at once as well as in circles.

3—*Gentle Spray from both nozzles on Flowering Plants*





Rain King

The BEST LAWN SPRINKLERS MADE

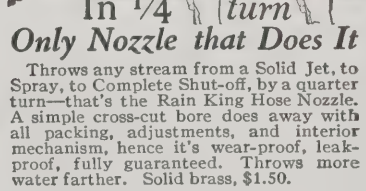
4—*Coarse Spray from both nozzles on Trees and Shrubs.*

Rain King Hose Nozzle

MAJESTIC Rain King

Sprinkler Top— Bird Bath Base

Entirely new and fascinating idea. Height lets it throw water well out over tops of plants and vegetables. 24 inch, $6; 15 inch, $5. Denver and West, $6.50 and $5.50. If dealer can't supply send us price and get it on money-back approval, charges paid.



In 1/4 turn

Only Nozzle that Does It

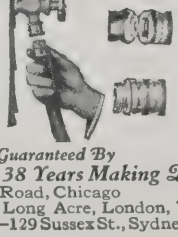
Throws any stream from a Solid Jet, to Spray, to Complete Shut-off, by a quarter turn—that's the Rain King Hose Nozzle. A simple cross-cut bore does away with all packing, adjustments, and interior mechanism, hence it's wear-proof, leak-proof, fully guaranteed. Throws more water farther. Solid brass, $1.50.

GIANT Rain King

4 Nozzle—Double Capacity

When revolving plays water in long sweeping spirals like a gorgeous fountain—any circle from 5 ft. to 75 ft. across, according to pressure. Easily adjusted to stationary position. Adjustable to height, fully extended, 4 ft., as well as to distance, direction, spray or stream. Ideal for large grounds, parks, etc. $12.50. Denver and West, $14.50.

Rain King Automatic Hose Coupler



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¾" size, 60c 1" size, 80c

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Quaint, colorful and decidedly distinctive is this peasant kitchen and breakfast room, with its decorated cabinet, furniture and gaily painted door

Decorated Doors

Continued from page 394

the panels in a dark color, while the panels and stiles are painted white or light gray. Deep blue or green are the colors most often seen. Occasionally a simple flower pattern is added to the panels, and what charm those old doors with their faded flowers have to-day!

In adapting the decorated door to the modern Colonial house it is not necessary to cling too firmly to the tradition.

This brings up the problem of decorating the doorways of English, Spanish, Italian and other houses of period design. The solid color the easiest solution, and is es effective set in a brick or stone

Decorating the front door is and more striking custom than ing interior doors, but there is be said about the latter. It is be more and more in keeping with ideas of decoration to use the do room as panels, istead of leavin stark and rather austere.

Of Gardens That Grow in the Shade

Continued from page 366

their pendulous red and purple flowers. I do think the red and white ones are not as handsome. Nicotiana is an annual doing well in the shade. In Paris, in the Luxembourg gardens, I once saw a bed bordered with red foliage plants made up of Nicotianas shading from palest 'bois de rose' to deep tobacco brown. A friend of mine grows the white ones around a dark pool. They open at night and are deliciously fragrant, so I have them under the guest-room window to entice my friends into coming again.

In California I saw lovely shaded gardens. There were Tree Ferns, night-blooming Jasmine, Primula malacoides, Cineraria, Olea fragrans, Laurel cerasus, Camellia, Calla, Cornus nuttalli and, amongst the things we can have, too, Plumbago, Daphne odorata, Periwinkle and Saxifraga cordifolia (both these with huge flowers), Ajuga and, of course, Begonia.

The soil for the shaded border should be like that for any flower border, except for frequent applications of bone-meal if it is under a tree. Since the roots of the tree extend as far under the ground as the branches above ar the tiny feeding rootlets are at of the roots it is not a good plan a border right under the outer r the tree's branches. Either have under close to the trunk or not tree at all. Elms and Poplars a feeders and not kindly neigh smaller plants. Evergreens are pecially Cedars and Arborvitae small tap roots go down ins spreading out. But before prepa soil for the wild shaded garden g woods, dig up a trowel full of ea let it slip between your fingers will see that it is sandy and lig to the rotted leafmould which h accumulating for centuries. Put can get of rotted leaves and inco them into the soil of your wild garden to keep it light and sw old leafmold is sweet. I would no the use of lime in this garden fo wild plants have an aversion to i soil is too heavy lighten it wit Keep the ground clean of gras weeds or you will not have the you planned for but unexpected

BAY STATE NURSERIES

Summer Planting

Have you made your plans for planting this month?

Perhaps it is a new hedge—additions to your perennial border—or something more extensive, a splendid rose garden or unique landscape effect, that you have in mind.

...ever your plans may call for, we ...u Bay State can supply it.

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...rless varieties along the ...rd and in the pool.

...led themselves just natur... ...our well-planned garden ...er general arrangement, ...er with other perennials ...assed planting. They ...oul, and this is the age ...r

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LISTING, picturing and describing advance offerings of bulbs for Winter and early Spring blooming, Pot-Grown Strawberry Plants, Celery and Cabbage Plants, Seasonable Flower Seeds, Seasonable Vegetable Seeds, Insecticides, Fertilizers and Garden Equipment.

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This is a corner in our Rose Garden. There are 17 other similar rose beds —and 175,000 "Star" roses in near-by fields, blooming in July and all summer

An Invitation!

WHERE in this country can you find lovelier blossoms or greater variety of roses than in our own Star Rose Gardens at West Grove? The picture above shows one bed out of eighteen—so you can see for yourself that the gardens are worth visiting. Come—come any time this month, next month or until frost!

To make it especially easy to find the roses you know about and particularly want to see, we have prepared a "finding list" which locates each rose in the garden—and every rose in the garden is clearly labeled, too.

Star Roses guaranteed to bloom our "star tag" says so!

After you have seen our gardens, you will realize how thoughtfully and painstakingly "Star Roses" are grown. You will understand why "Star Roses" can be so safely guaranteed to bloom—why "Star Roses" are the only trade-marked roses!

"Star Roses" are the only trade-marked roses. Look for the durable celluloid "Star" tag, permanent label and evidence of our guarantee. Plan your motor trip so you see the "Star" gardens this year sure!

West Grove is on the main highway between Philadelphia and Baltimore. There are good tea houses either side of us, or you can bring your own lunch and enjoy it in the summer house as you gaze at the hundreds of thousands of gorgeous roses.

"Success with Roses"

comes easily to those who have at hand our *new*, simple but complete guide to rose growing. Now is the time to get this book. It tells the easiest and best way to have glorious blossoms all season, how to get most blooms from every plant whether you have many or few, how to give proper summer care. "Success with Roses" is only 25c. Order yours today!

THE CONARD-PYLE CO.
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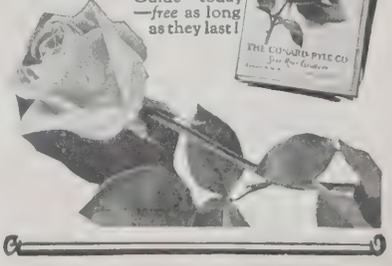

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Softening the Summer Sunshine

Continued from page 386

Another has a spring roller at the bottom and draws upwards; a third, called a roller awning, is made with a wood roller at the base and rolls up from the bottom. All of these insure plenty of air, yet regulate draughts, and the type selected depends upon the exposure.

Sometimes the lower portion of the porch should be protected, or again it is preferable that the upper section be closed off. There are occasions when the two types of awning are used on one porch and they can easily be regulated by a simple cord and pulley arrangement. The simpler the mechanism that controls awnings, the better. When a sun parlor does not require a full-sized or regulation awning, a canvas valance may be used to shade the eyes from glare. Such a valance is usually made from twelve inches to three feet deep and either rolls or loops up by means of pulley ropes.

All sorts of unusual problems confront the awning maker who has been driven to work out solutions for many individual requirements. For instance, there is the box or extension-roof awning which has been especially created to meet the needs of French doors and windows, or for windows in gables with extension roof, that open outward. This type of awning has a double frame—the upper portion extending well out, the lower dropping as a shade protection, thus allowing sufficient space for the door or window to swing out easil can be made either with or witho wings, and when not in use, the portion pulls up first, gathering th ing back against the top of the d window in orderly folds.

When a long stretch of piazza i as a sun parlor or outdoor bre room, it can be treated with on awning instead of two or more s ones and a gear rolling attachm used that is operated by a crank

When a sun parlor presents the lem of circular or semicircular wi or doors that lead to a terrace, cially made bevel awning will solution. The frame is specially structed to follow the curved out the opening and when the awn raised, it folds back closely and o shallow skirt is seen.

If an ordinary awning were use windows that are very tall and n its extension would be as great height of the window. To avoi extreme protrusion, a sliding rod tached to the side of the window to which the awning is hung, makes it possible for the awning ject only a moderate distance fr building.

The 'spear head' or Venetia lately brought into vogue has a decorative quality but can be with good taste only on Italian, S or some other distinctly southern

An Old Homestead Renews Its Youth

Continued from page 377

pink paint, followed by one of good, bright green and then rubbed down almost to the wood. The present effect is very pleasing. The inner sides were never painted and are now a fine rich brown in color.

To the left and one step down is the living room, its oak rafters dark with age, its fireplace, high enough for a man to walk into, extending across most of the east wall. The walnut beam across the opening was a tree two feet in diameter, sawed at butt and crotch, squared off roughly and set in place. At one end it is possible to see the bark that still clings to it. The hearth is really a floor of huge, flat fieldstones, extending the whole width of the room and halfway into it, very primitive, but homelike. The chimney breast, jambs of the fireplace, and boards of the floor had been painted green once upon a time, probably by the same brush that tinted the doors. Time has toned this down until it is now just sufficient contrast to the honey color of the pine.

At one side of the hearth, within easy reach of the early housewife, is a well that has served the occupants of this house for two hundred years and still provides the water supply, although more efficiently now than formerly. An electric pump in the cellar of the newer portion is connected with the well by pipes and in this way water is provided for house, barn and other places on the farm. A square hatchway, with an iron ring in its center, serves the double purpose of being well cover and part of the living room floor.

The curious paintings on the old window glass in this room are of interest. They are said to be the work of a well-known artist who knew a previous owner. Every window has on painting filling in the whole of a eight pane. One is a ship in fu another is a windmill, another m large cup and saucer and one a be —very nice and cheerful looki permitting these small, odd pict remain wisdom was also exercise may not be in keeping with the of the house, but they are att and seem to belong there.

The dining room, facing sou west, has a floor of pumpkin yel this room there is an exceptiona old carved mantel, a large, very table bench which serves as a table, an excellent corner cupboa an old-fashioned milk bench for board. The chairs are of the 'k variety common in Chester an caster counties. The other furn are pewter and glass and old chi

Four bedrooms and the two b on the second floor, and over th portion of the house is a cement attic, laid probably within t fifty years under the delusion sparks from the chimney set fir roof—a not unusual occurren cement floor would stop the sp the flames. Several old houses in of Chester county have similar floors, and they at least served ful purpose of keeping rats a away from the apples, onions a of peppers from the summer gar were stored there.

At the bottom of the stairs upward the mason who laid up made a little hollow or alcove for the candle used to light on In the old days they lit their c the great stone hearth, that tr altar of the home.

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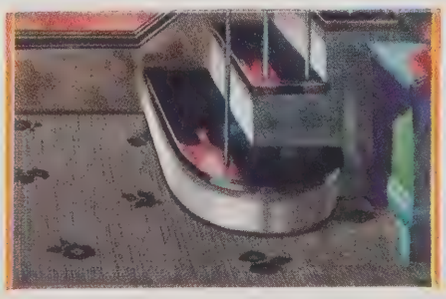

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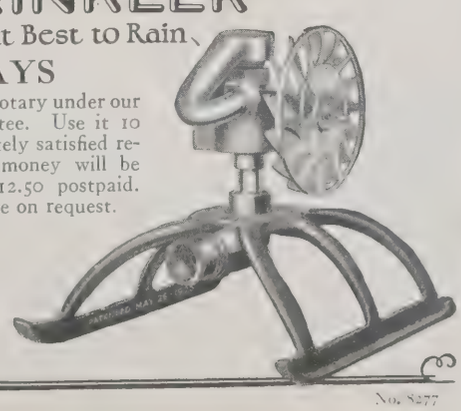

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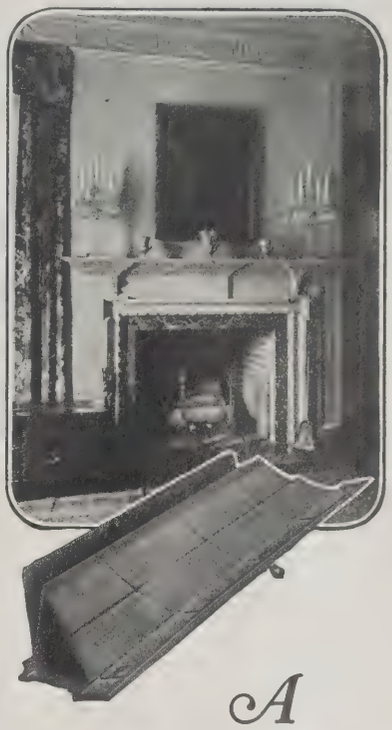

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Antrol, therefore, destroys the entire ant colony. Other methods are merely repellents. They kill the worker ant but allow the queens to create increasing numbers of ants on your property.

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Snarol, a ready prepared meal, nonsoluble in water, so rain or sprinkling doesn't harm it, and absolutely harmless to vegetation, quickly kills these pests **Snarol**

Antrol
The National Ant Control

Minor Prophets Among the Perennials

Continued from page 380

species of Catmint with small sage-green leaves and with masses of lavender-violet flowers in June, July, and scattering through the season. Several sorts are being sold. Nepeta mussini is the better sort with smaller leaves and less straggling in growth. The inferior one is Nepeta ukranica. These perennials are good substitutes for such effects as can be gained by Lavender in the gardens of England. We see this used more each succeeding year for planting in masses to border steps, to add a touch of color under evergreens, to billow over a low retaining wall and to serve a score of ground cover uses.

A third one of the ground cover desirables is the Rosy Soapwort (Saponaria ocymoides) with lavender-rose flowers like a dainty Phlox, so profuse in bloom as to cover the foliage completely.

Two Cutflowers. Personally I've always had an affection for the lovely blue Scabiosa but secretly have also felt that they are too short in growth and shy of bloom. Last summer, however, at the Brooklyn Botanical Garden, Mr. Montague Free pointed out a truly splendid sort known as Scabiosa caucasica. House's Hybrids. These plants were over three feet tall and were loaded with scores of long-stemmed flowers unexcelled for cutting. Remember that these Scabiosas are blue—true azure blue and one realizes how much they are needed for the July effect in a garden.

When the perennial garden approaches its bedtime and everything else appears to be trying unsuccessfully to keep awake and entertain us, the Japanese Anemones burst upon the scene like gay dancers, who have rested while others worked. Almost any variety is attractive but as with all dancers some are better than others. Our favorites are: Buhler Kind, a double white; Max Vogel, a double rose; the lilacy tinted rose, Richard Ahrends; Prince Henry, double red. Lower growing is the Anemone hupehensis which starts to bloom early in August and continues until the late arrivals surpass it in beauty.

Bleeding-heart.— Who does not treasure childhood memories of Bleeding-hearts? Surely these are the most captivating flowers of all to take apart and hunt for the two rabbits, grandfather's glasses, the harp, and the bottle! Bleeding hearts are rather easily increased by taking cuttings from short shoots which develop in the axils of the leaves just after the flowers are passed. Remove the cuttings with a heel, that is, take with a small piece of the parent stem attached to the base. Insert in a sand box and cover with a glass tumbler. Shortly a new plant is obtained.

Another species the Plumy Bleeding-heart (Dicentra eximia) prefers a little more sun than its old-fashioned cousin. The flowers are smaller and the plants grow only eighteen inches tall. The finely cut foliage is lovely, gray in color and retained upon the plants in good condition all through the seasons. Scattering flowers are found upon the plants all summer. It is one of the best perennials for edging beds of taller sorts.

Beebalm. Each person has a distinct memory of the first time he has seen certain flowers. I had never noticed the flowers of the Beebalm (Bergamot or Monarda) until one day as a youngster I saw a tiny bird hovering, darting, sipping, flying, eluding—how could it be a bird and yet so small! The woman, in whose garden it was seen, informed me that this was a humming bird upon the Horsemint, as she called it. I learned forthwith to appreciate the beauty of the strange Beebalm and this dainty Lilliputian bird. In our gardens, we grow a variety of Monarda known as Cambridge Scarlet which has whorl upon whorl of the gorgeous scarlet quills. Very hardy, yet the Beebalm is whimsical and does not transplant readily in the fall of the year.

Amenable Wild Flowers. Scores of lovely native spring-flowering wild flowers enjoy the shade, coming into bloom before the leaves have expanded upon the trees, they are adapted to spend the remainder of the season in dense shade. For garden use there are the lovely blue Virginia Bluebells (Mertensia); the Jacobs-ladder (Polemonium); the tall stately, spikey white Bugbane (Cimicifuga); the lovely white and lavender Meadowrue (Thalictrum); the welcome Violets; the snowy Trilliums, Blue Phlox, Bloodroot, and Twinleaf (Jeffersonia), and scores of other woodland treasures. More wild flowers are included in gardens each year. We are beginning to appreciate the fact that our own flowers have an elusive charm such as some persons do not get from even the best cultivated perennials. Spring flowers endure for but a passing hour but how glorious!

(*continued on page 428*)

The Garden Beyond

Continued from page 375

Reaching out for a solution, I found that the first secret of contentment lies in the fact that the foreground of the picture, the space immediately about the house, be painted in subdued tones, in harmony with its architectural features. By a skillful use of perspective, the actual flower garden is made to seem just out of reach.

A step from the door of the living room leads onto a flag or brick terrace with plenty of shade and comfortable garden furniture. From here the flowers are seen as in a vista where somehow they seem to gain in comeliness and intensity.

The setting or frame for the picture is of next importance and here we have several different mediums to choose from. Any sort of wall or hedge helps to shut out the world and make our garden more our own. In England doorways and vistas are cut in walls of living green—small wonder that these famous Yew hedges have long been the despair of American garden lovers! But we can get almost the same effect with native Hemlocks and Spruce, and even Privet, when properly trimmed and cared for, can scarcely be distinguished from Box. In deciduous shrubs what can be more effective than the feathery green foliage of Spirea thunbergi or the beautiful drooping white branches of Spirea van Houttei, unless you prefer the vivid green and red dresses of Barberry? Gateways, too, add to the illusion of distance.

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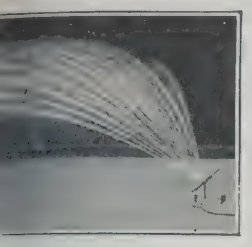

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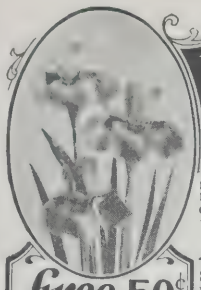

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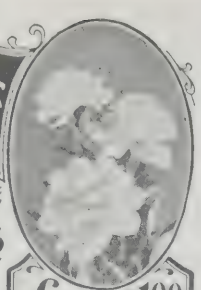

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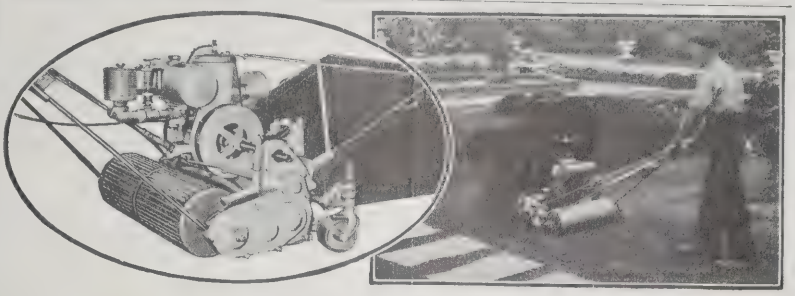
PEONY
will be given to all who order $2.00 Peony Collection before September 15th. This FREE Peony will be the famous RICHARDSON'S RUBRA SUPERBA recognized by all judges and authorities as one of the leaders among Peonies, Rich Red Color, very large full double blooms. Very fragrant, worth $1.00. Free with order for $2.00 Peony collection.



Jacobsen "Estate" Power Lawn Mower

JUST as fine as a power lawn mower can be made—the result of several years development by experienced power mower specialists. There are no traction wheels on this mower to mar a delicate lawn. Broad traction rollers propel the mower and at the same time produce a beneficial rolling effect. The cutting height is adjustable and the 24-inch, six-blade reel creates a lawn as smooth as velvet.

Designed for Estate Lawns

There is abundant power in the specially built Motor to cut the toughest Fiscue, Bermuda or St. Augustine grasses. The mower travels on its own power and steers so easily that the old gardener can do a perfect job without fatigue. Cuts close to flower beds, walks, and other obstructions. The reel is sharpened by the mower's own power.

The Estate Mower is a modern engineering masterpiece—automobile-type differential, enclosed gears, running in oil, separate clutch control of traction and cutting reel, and other well-known Jacobsen features. Sales and Service in all important cities.

Write for descriptive literature and prices. State size of lawn. Demonstrations on your own grounds without obligation.

Jacobsen Manufacturing Co.
Dept. D Racine, Wisconsin
New York Office: 245 West 55th Street

Lawns Beautiful

IRISES

Best Standard and Rare Sorts, and our 1928 introductions, "White and Gold" and "White Star." Many of the world's finest Irises are in these two low priced Collections for July delivery.

Collection "A"—$5.00
Ambassadeur, Chalice, L. A. Williamson Leverrier, Mother of Pearl, Magnifica, Medrano, La Neige, Souv. de Mme. Gaudichau.

Collection "B"—$4.50
Ballerine, Georgia, Lord of June, Ochracea, Opera, Prospero, Queen Caterina, White Knight, Zwannenberg.

CASH WITH ORDER
Iris Harriet Presby free with first 100 orders for both Collections. Descriptive Catalog Ready.

J. C. NICHOLLS
114 Overlook Road, Ithaca, N. Y.

Scott's Creeping Bent for Perfect Lawns

Sod in six weeks! A rich, velvety stretch of lawn that chokes out weeds before they can grow! A deep, thick, uniform turf that's everlasting and makes your home a beauty spot! That's what you'll get if you plant Scott's Creeping Bent.

The New Super-Lawn
Creeping Bent—long recognized as the ideal grass for golf putting greens—is now producing Super Lawns. Instead of sowing seed, you plant stolons or the chopped grass—and in a few weeks you have a luxuriant lawn like the deep green pile of a Turkish carpet. Read all about this unusual grass in our illustrated booklet "Bent Lawns." Mailed on request.

O. M. SCOTT & SONS CO.
555 Main Street Marysville, Ohio

IRIS
from April till July!

THE dainty little Iris pumila illustrated above bursts into bloom with Rock Cress and the Daffodils. Some of the tall, bearded Iris continue the carnival into July. Below I offer a few of the choicest. For other meritorious kinds please consult pages 43-45 of my *free catalog.*

I. CRISTATA. Only 3 in. high, amethyst-blue flowers during late April.
I. PUMILA. Rich royal purple. Earliest.
I. PUMILA ALBA. White. **IRIS PUMILA COERULEA.** Light purple standards and darker falls. Coerulea. Light and dark purple form of pumila.
I. VERNA. A symphony in blue and gold.

Any of the above 25c. each; 3 for 65c.; $2.50 dozen.

Special: **The set of 5, three of each, 15 in all, for $3.00.**

A few of the Choicer, Medium Priced Sorts of Special Merit

CAPRICE. Rosy claret of 2 shades. 2 ft.
FLAVESCENS. Soft yellow. 30 in.
HER MAJESTY. Rose colored, deeper veins, 30 in.
QUEEN OF MAY. Lovely soft lilac-rose.
RHEIN NIXE. Snow white standards with plum-colored falls.

Any of the above 25c. each, 3 for 65c., $2.50 dozen.

Special: **The set of 5, two of each, 10 in all, for $2.00.**

For the Connoisseur in Search of Iris Aristocrats

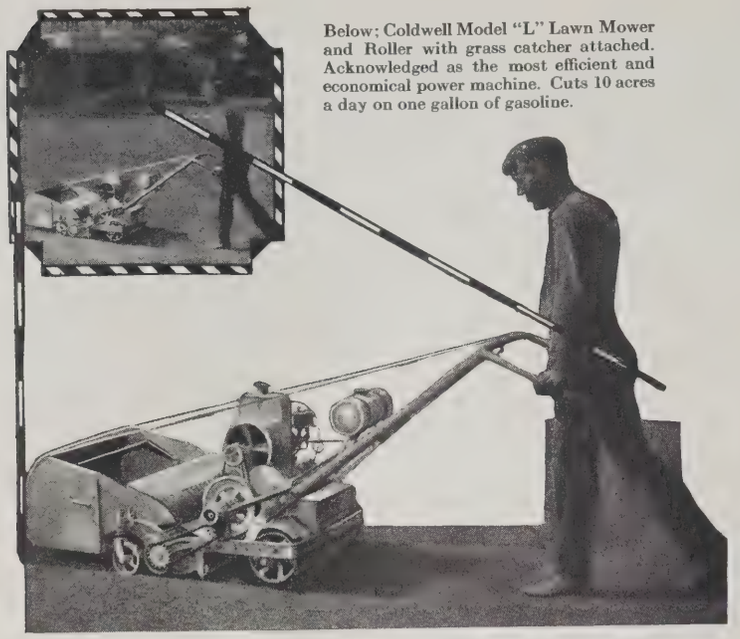
CRUSADER. 42 in. The bluest blue, with orange beard. **60c. each.**
LENT A. WILLIAMSON. 42 in. Blue, purple and yellow fantasy. **50c. each.**
LORD OF JUNE. 40 in. Lavender and violet. **$1.00 each.**
SEMINOLE. 30 in. Rose and crimson. **50c. each.**
SHEKINAH. 36 in. Clear, tall yellow. **$1.00 each.**

Special: **One each of above 5 superb creations $3.00.**

Mixed Iris for massing, containing many sorts of distinct beauty. **15c. each, $1.50 dozen, $10.00 per 100.** Special quotations on larger quantities on application.

Free Catalog, of course

GEORGE D. AIKEN
Box V Putney, Vermont
"Grown In Vermont, It's Hardy"



Below: Coldwell Model "L" Lawn Mower and Roller with grass catcher attached. Acknowledged as the most efficient and economical power machine. Cuts 10 acres a day on one gallon of gasoline.

Why Coldwell Lawn Mowers are a sound investment

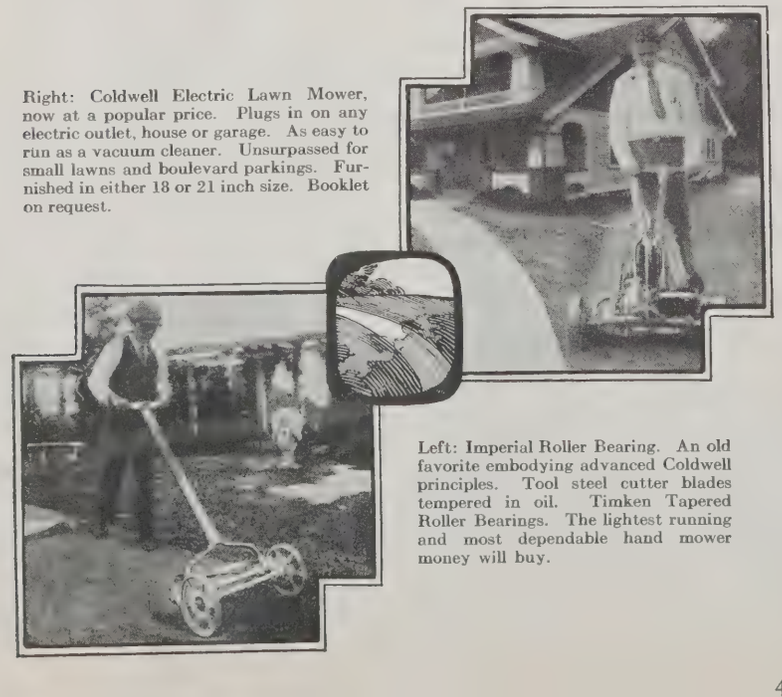
Advanced Coldwell refinements mean smooth operation and clean, even cutting. Staunch dependability insures long years of efficient, trouble-free service. This is the combination which explains Coldwell leadership—the factors that make a Coldwell Lawn a *sound investment* for you.

There's a Coldwell Lawn Mower for any size of lawn, priced for every buyer's preference. Your dealer will demonstrate.

Write for interesting booklet, "Caring for the Lawn."

HAND HORSE — SINCE 1867 COLDWELL *DEPENDABLE* LAWN MOWERS — GASOLINE ELECTRIC

COLDWELL LAWN MOWER COMPANY, NEWBURGH, N. Y., U. S. A.



Right: Coldwell Electric Lawn Mower, now at a popular price. Plugs in on any electric outlet, house or garage. As easy to run as a vacuum cleaner. Unsurpassed for small lawns and boulevard parkings. Furnished in either 18 or 21 inch size. Booklet on request.

Left: Imperial Roller Bearing. An old favorite embodying advanced Coldwell principles. Tool steel cutter blades tempered in oil. Timken Tapered Roller Bearings. The lightest running and most dependable hand mower money will buy.

A Little Garden in Pastel

Continued from page 384

The shrubs used are Persian Lilacs, Azalea vaseyi and pale salmon-pink Japanese Quince, which are a lovely iridescent upward continuation of pink, mauve and lavender Iris and the pale Darwin Tulips. A little light cool yellow appears in the garden at each of the flowering seasons because it gives a sparkle and life that nothing else can and prevents the pinks and mauves from becoming too monotone.

Three vivid colors also have been allowed as pastel, the dark glistening purple of Monkshood, the deep blue of Delphinium bellamosum and the coral of Pentstemon and Heuchera.

The flowers in the central bed medium in height with the tall pushed to the outside beds where form a frame for the lower thir the center. For instance, Delph belladonna and bellamosum are n tall for the center beds, but the s English hybrids which find a pl the background, are.

The garden has a backgrou European Beech trees clipped i hedge and a lower hedge be vegetable and flower garden. It be Privet for cheapness, or Y Arborvitae if the more expensive green hedge is possible.

Planting Plan For The Pastel Garden

Continued from page 384

BULBS

47) 28 Japanese Gold-banded Lily (Lilium auratum)
48) 48 Madonna Lily (Lilium candidum)
49) 40 Poet's Narcissus (Narcissus poeticus ornatus)
50) 100 Grape Hyacinth (Muscari botryoides)

TULIP COMBINATIONS

51) *Combinaion No. 1*
100 John Ruskin
100 Fairy Queen
75 La Tristesse
75 Inglescombe yellow
60 Zulu

52) *Combination No. 2*
45 Flamingo
35 Vitellina
40 Apricot
35 St. James
35 Louis XIV

53) *Combination No. 3*
50 Flamingo
40 Vitellina
30 Zulu

54) *Combination No. 4*
60 Clara Butt
50 Rev. Ewbank
50 Vitellina
35 Zulu

55) *Combination No. 5*
15 Vitellina
10 Zulu
40 Clara Butt

BIENNIALS AND ANNUALS

56) 12 Hollyhock, pink, white, yell (Althea rosea)

Annuals to follow Tulip Combinati
Ageratum
Heliotrope
Snapdragons, pink yellow and whit

Annuals to follow Tulip Combinati
Salvia farinacea
Lemon African Marigold

Annuals to follow Tulip Combinati
Verbenas pink white and yellow
Petunias Rosy Morn and white

Annuals to follow Tulip Combinati
Dark purple Petunias
Salvia farinacea
Lemon African Marigolds

TREES

57) 9 English Beech (Fagus sylvatica)
58) 6 Red Oak (Quercus rubra)

SHRUBS

59) 7 Pink-shell Azalea (Azalea vaseyi)
60) 2 Butterfly-bush (Buddleia variabi
61) 1 Salmon Japanese Quince (Cyd ponica salmon)
62) 1 White Rose-of-Sharon (Hibiscus albus)
63) 4 Pink Honeysuckle (Lonicera rosea)
64) 8 Persian Lilac (Syringa persica)

Practical Paths for Little Gardens

Continued from page 374

the true stepping-stone fashion, if designed for a woman's tread are practically impossible for comfortable walking by a man, who will always tend to overstep them; and if laid out for a man's stride, the average woman will understep them, and no one is at all comfortable. The correct way to use flat stones for real path purposes is to make what is rightly known as 'pattern stone walk,' which is at least 30 inches wide and preferably 36 or even 40 inches and consists of flat stones of irregular shape laid with from 2 to 4 inch grass joints, *not wider*. Stones should have a minimum area of 1½ square feet and may be as large as desired, but not too pointed or too narrow. And above all, unless it be for a truly wild location, be sure and use either sawed flag or a natural bed stone with a reasonably smooth surface, as a woman gets no joy out of being compelled to walk on rough stone in thin-soled shoes.

Custom and habit are impelling factors in determining the proper or rather fitting use of any type of material. Nearly everything good is all right in its proper place, but some places are more proper than others. I believe the best definition of a weed that has ever come to my attention is that 'a weed is a flower out of place.' And so it is with paths and their uses.

For instance, cinder and gravel paths are very useful, but since we seldom associate them with good garde wise to use them, if at all in g only in those where the pattern i gible and the general nature of t den a little wild or rustic.

Rough stone work and log ste wild material are the natural asso of cinders and to use them el calls for good judgment and e courage. For vegetable garde paths to service areas, or in am vine rows or a vineyard, they very fitting.

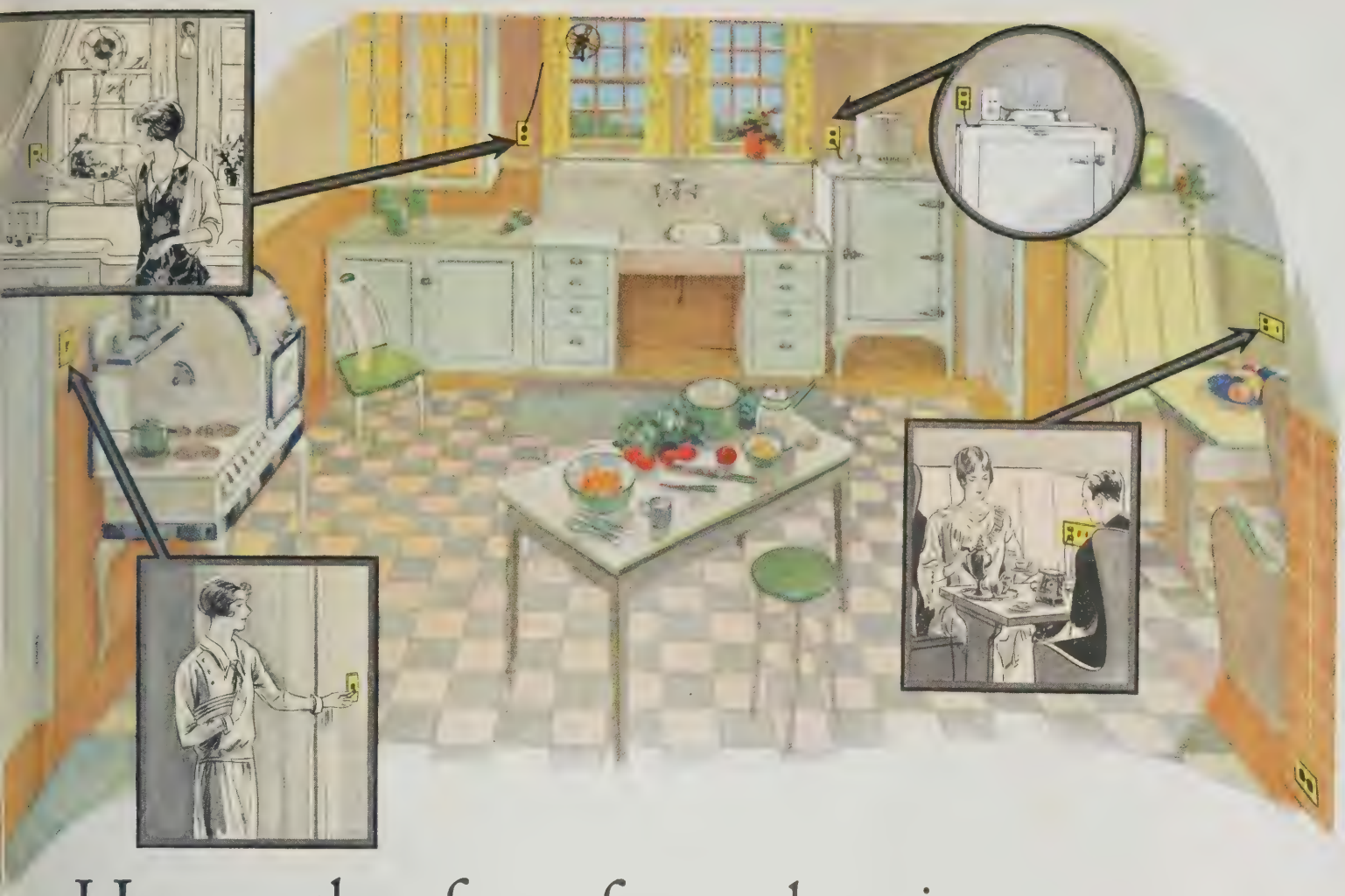
Pattern stone is from its rec cost associated with formal gar house terraces and the true st stones with summer cottages o through swampy areas.

Brick, of course, follows the su of pattern stone, and gravel all upon the type of gravel.

The old-fashioned pea grave rally associates itself with long wooded areas or along lakesides arbors or for open terraces; but t fully constructed water-bound m walk just naturally belongs to a garden.

Woods paths should be plain tan bark; and, as for cement, re to the connection from the back the drive or along the far side house for the delivery boy.

And finally as to construct member always that whatever doing is worth doing *as well as demands.*



Have outlets for a fan and an iron —and don't do your work in shadow

Plan your wiring when you plan your house

A kitchen can't be a comfortable workshop unless it is wired correctly. And it won't be wired correctly unless you plan that wiring as carefully as you plan your closets. You should have a standard kitchen light in the center, yes—but you should *also* have wall brackets to light the sink and the range, and a light for the breakfast nook.

You should have plenty of outlets—for your electric iron, for the fan that will keep your kitchen pleasant when the weather is hot, for your electric refrigerator, for all the many services electricity can perform for you. Give thought to these things whether you are building a new house or remodeling an old one.

The General Electric Wiring System is one completely planned arrangement which really takes care of every electrical need. It provides for an outlet for every fifty square feet of floor space. Since all its materials are made and guaranteed by General Electric, lasting service and ultimate economy are definitely assured.

Send for a copy of this helpful booklet

GE WIRING SYSTEM

—for lifetime service

Merchandise Department
Section 16
General Electric Company
Bridgeport, Connecticut

GENERAL ELECTRIC

These fabrics triumph over Summer hazards

TORRID sun, sudden showers, dusty winds and the open windows of Summertime!

Thank fortune for Lesher Mohairs—woven by the Goodall Worsted Company of Sanford, Maine. The hazards of summer hold no threats for these valiant fabrics. No others adapt themselves so graciously to summer decorations; no others meet every whim of the elements with such loyal service.

The fibre of which Lesher Mohair is woven is the strongest known to the world of weavers. Yet the fabric is amazingly Soft, Silky, Lustrous. The unique method of weaving and careful processes of finish render it dust-proof, sun-proof, wrinkle-proof. The suds of the tub only make it more pliable—and the beauty of its folds and fast colors will weather the trials of many seasons.

In their endless variety, you will find cool, restful colors for the comfortable porch-nook—exquisite stripes and delightful figures for your living-room—in designs truly Spanish, designs English, designs Ancient, designs Modern. All adaptable to draperies, bedspreads, chair coverings, cushions, slip covers and wall hangings. Lesher Mohairs create the harmony that denotes good taste—the variety that insures interest.

A "Transformation" for Furniture

The new Lesher Mohair Slip Covers, in their smart colorings and designs, will transform a room in a trice. They are treated by a special process which causes dust to slide from their surface. It can never penetrate to the furniture beneath. These famous fabrics are water-repellent, sunfast, and will not muss nor crease. They wash perfectly and endure for many years.

A delightful brochure, written by a well-known authority, will be sent free on request. It describes Lesher Mohairs fully and brings you a world of helpful information concerning the Home Beautiful. Write for it.

Lesher Mohairs are a Goodall Product

LESHER, WHITMAN & CO., Inc.
Eight Eighty-One Broadway, New York City

Beautiful birch

is birch paneled living-room in the Shippen House, recreated by Good usekeeping Studio for Sesqui-tennial Exposition, Philadelphia, cts the charming hospitality of Colonial days.

rch woodwork, ors, floors and neer paneling

effectively employ- in the room illus- ated, provide an nosphere of restful arm and colorful rmonious beauty.

isconsin - Michi- n birch has pre- inently that quality grain which reveals artistry of wood those intimate fects now so much ught by eminent hitects and interi- decorators.

l, the marvelous new the wood finishes"— nsparent stains that eetrate and develop full richness of the tractive **birch** grain— make it possible to a delightfully differ- color for the wood- k of each room, in a e range of shades and rs that will satisfy the ct conservative or la-modern taste. rly "mar-proof" ness assures **birch** retain a fine appear- indefinitely—beauty long serviceability.

a we present you with all e acts! They are concisely ail in new "Beautiful r" brochure, with illus- ains of fine interiors by emi- n architects. Free on request.

H MANUFACTURERS R. A. Bldg., Oshkosh, Wis.

tiful Birch for.. tiful Woodwork

In the wall not In front of the window

How Robras 20-20 radiators are installed in the Barbizon Hotel, New York. Murgatroyd and Ogden, Architects.

With

ROBRAS 20-20 RADIATORS

Your Windows Can Come To The Floor Line

PERHAPS you too admire rooms in which the windows come down to the floor line. Sometimes such windows are used as French doors, opening on to a terrace. Sometimes they are just windows letting in long, wide shafts of sunlight.

Whenever you expressed your desire for them, however, you were probably told "you *must* have radiators in front of *some* of the windows."

That's all over now, though. Robras 20-20 Radiators can be put in the wall, between the windows, out-of-the-way. These radiators are made of brass and are designed to be concealed. Almost any amount of radiation can be installed in a space only four inches deep.

When installed between the windows, a small grille in the wall facing the room, admits cool air to the radiator where it is rapidly heated and passes out through grilles in the sides of the window recess.

These Robras 20-20 Radiators can be used with steam, hot water or vapor systems. They can't rust or leak.

Your name sent on the coupon below will assure your receiving an interesting book about this modern radiator.

ROME BRASS RADIATOR CORPORATION

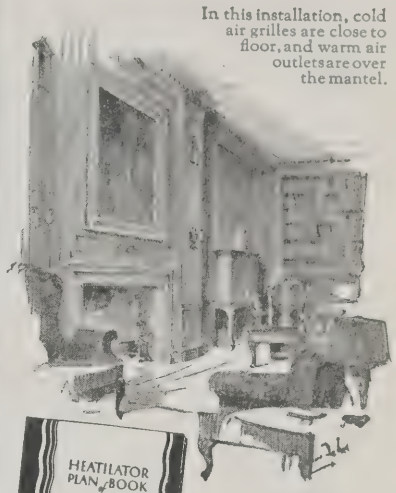
1 East 42nd Street New York

Send me full details about the Robras 20-20

G.H.B. 6-28

Name

Address



In this installation, cold air grilles are close to floor, and warm air outlets are over the mantel.

What greater source of pleasure than a smokeless fireplace that really warms the room? To get such a fireplace without extra cost —write for our new—

PLANBOOK of Really Successful FIREPLACES

IT shows exactly how—without extra expense—you can build a beautiful fireplace **guaranteed** to burn without smoking and to give double heat from same fuel, heating the *whole* room.

When you use Heatilator construction *you know in advance* that your fireplace will fulfill every ideal. The Heatilator is a scientifically designed double-wall form, built into the fireplace to make proper construction absolutely certain. It gives *double heat* by saving heat ordinarily wasted in the brick and up the flue.

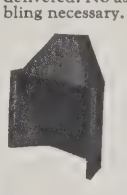
REDUCES COST

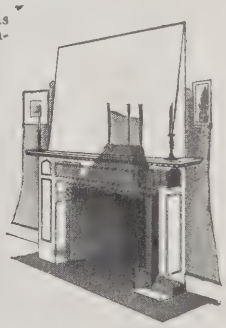
It costs less to build a fireplace *with* a Heatilator than *without*. This is because of savings in labor and material. Fuel savings are extra.

You will be interested in receiving a copy of our Planbook—full of ideas and installation photographs. Mail coupon!

HEATILATOR COMPANY
SYRACUSE, N. Y.

Below: Heatilator as delivered. No assembling necessary.





At right: Phantom view of typical installation. Note cold air intakes, double walls, and warm air outlets.

Heatilator Fireplace Unit

HEATILATOR CO., 733 Glen Avenue, Colvin Sta., Syracuse, N. Y.

☐ Please send a free copy of the new Heatilator "Planbook of Modern Fireplaces."

Name .....

Address .....

HEARTHSTONE EDITOR'S CHAT

This department is for every one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. Its purpose is to bring to each homemaker all the aid and advice so freely offered by the business world to-day. Booklets (see next page) may be had upon request. Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

Electric Refrigeration

WITH the coming of summer, the question of the icebox becomes one of the most important of the day and we do not need the Government reports to prove that an electric refrigerator means the utmost in convenience, economy and as a safeguard to health. We shall quote these reports, however, as they are of interest and value:

'To prevent decomposition of milk, even though sterilized, it must be kept cool, at or below 50 degrees Fahrenheit. At a temperature below 50 degrees, bacteria multiply less rapidly, but between 50 and 100 degrees Fahrenheit, the increase is very fast; hence the necessity for thorough cooling and the maintenance of low temperatures until used.

'It will be seen from these reports' says a Frigidaire booklet, 'that a cold, dry atmosphere is necessary to the safe keeping of milk, meats and other perishable foods. As health is so very dependent upon the food we eat, too much care cannot be given to proper refrigeration. A good household refrigerator *while filled with ice* will give an average temperature of about 55 degrees. Of course, as the ice melts, the temperature goes higher. As the best temperature that could be hoped for with the old-fashioned icebox is 5 degrees higher than Government experts demand for proper refrigeration, there is no hope of ever getting satisfactory refrigeration by means of this old-fashioned icebox.'

Coming to the other advantages in having an electric refrigerator, we quote from The Kelvinator Corportiaon:

'There are four outstanding advantages of domestic electric refrigeration which deserve consideration: convenience; better food; economy; pride of ownership reflected in the increased salability of homes so equipped.

'Electric refrigeration is automatic, making its owner independent of ice deliveries. It is continuous as well as automatic, assuring perfect conditions of foods for days at a time. Frequent cleaning is unnecessary. Melting ice produces a moist cold which compels frequent cleaning to avoid mustiness and taint. The cold of electric refrigeration is cold and dry. It also brings to the home freedom to market when it is most convenient, to buy in quantities without danger of spoilage.'

Once, the purchase of an electric icebox brought to the housewife's mind a picture of a large, costly kitchen with the refrigerator its most important built-in accessory. Now she knows that some of the best refrigerators on the market are made in a very small size that will fit into a space not two feet square, with its height only about 3 feet. This is ideal for the small kitchen, whether in apartment or bungalow, and many a bride is finding this icebox quite within the limit of her budget.

One does not, however, have to purchase an entirely new refrigerator. Where the present icebox is in good condition, one need only buy some one of the reliable freezing units offered and at once the safety, comfort, and delights of an electric refrigerator are had. In speaking of the safety of electric refrigeration quote from a booklet issued by the Iroquois Electric Refrig tion Corporation: 'Bacteria and mold, the micro-organisms cause the decay of foods, multiply rapidly in temperature ab 50 degrees Fahrenheit. Below 50 degrees their growth is stop Bacteria are everywhere, in the air, water and soil and are tain to find their way into any foods left exposed. The eatin foods spoiled by bacterial growth is the c of ptomaine poisoning and other dange illnesses.

Electric Refrigerator Booklets

Ask for booklets by number only

SERVEL COLDERY The Servel Corp.	315
ELECTRIC REFRIGERATION Frigidaire Corp.	41
KELVINATOR & KELVINATED FOODS Kelvinator Corp.	38
ELECTRIC REFRIGERATION General Electric Co.	332
PRESERVATION OF FOOD & HEALTH Iroquois Electric Co.	326
WHAT EVERY HOUSEWIFE SHOULD KNOW Coldak Corp.	327
SOLID PORCELAIN REFRIGERATORS Jewett Refrigerator Co.	365

An amusing and instructive little boo is entitled 'We Ask You Your Questions Answer Them Too' (this coming from Jewett Refrigerator Company). In it ask a very pertinent question, 'What is difference between an electric refriger and an icebox?' And the answer is illumi ing: 'Most ordinary iceboxes have little o insulation other than layers of tar paper so-called dead air spaces or cork board stitutes. An electric refrigerator cabin insulated with real cork board, has tight fitting doors durable hardware, prolonging the life of the refrigerating besides making it cheaper to run.'

'Under present methods of ice delivery,' says a booklet lished by the Copeland Sales Corporation, 'the average enjoys adequate refrigeration of food for only a few hours This period of maximum cold is reached within a short time the ice-man's visit. From then until the ice supply is replen the next day, the temperature within the refrigerator steadily warmer. In such an atmosphere conditions are ex right for the development of bacteria which cause deterior of foods. Even though you were able to re-ice your refrige more frequently, conditions would still be favorable to spoilage.'

'The steady dry cold' say the makers of Servel, 'makes ble scores of delightful additions to your menus. Daint petizers, chilled soups, irresistible frozen salads and des creams, parfaits and mousses, all made with little effort i freezing compartment.'

'To-day wherever women gather,' reports the General tric Booklet, 'whenever talk turns to modern home-m you hear unstinted praise of the electric refrigerator that simple all you need do is to plug it into the nearest e outlet and it operates without any attention.'

As to cost of upkeep, the Kelvinator Corporation says: cost of operating is less than ice refrigeration. When com electric with ice refrigeration, we are obviously dealing things that are not strictly comparable. The evident supe of electric refrigeration means increased value (health, hapi convenience) which in itself represents a real economy. on a basis of dollar-for-dollar cost, however, the economy tric refrigeration may be proved under ordinary domest erating conditions, this varying with electric rates and ice

t / tucks / in

~ ~ caulks the cks as only a flexible ulating material can

mentally, there are only two kinds of insulat-terials—*rigid and flexible.* It will pay you to clear understanding of each for there is a vast nce in the way they are used and in results.

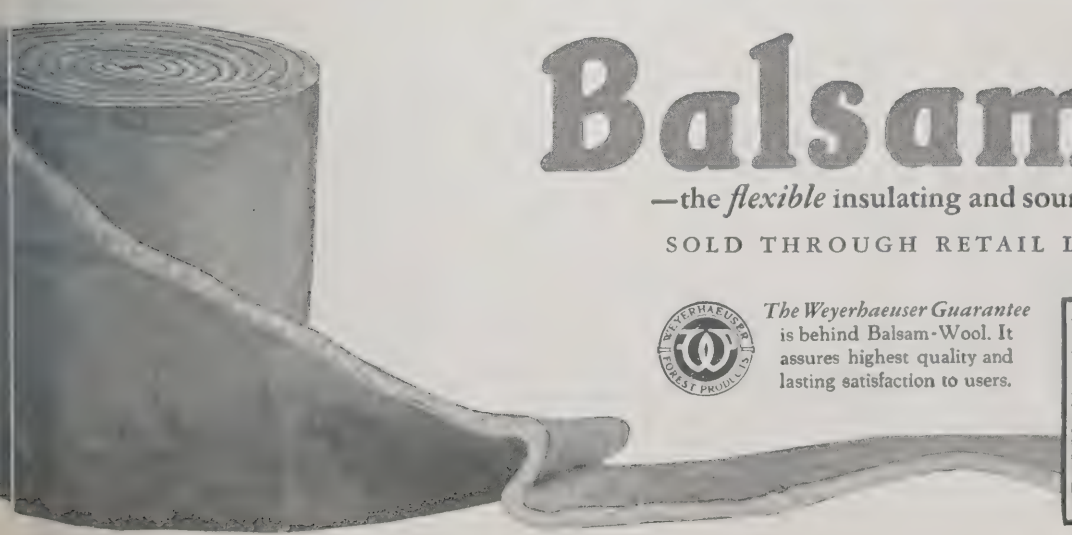
xible materials, such as Balsam-Wool, are sold s. Basic construction is not changed in the st when they are used. You add Balsam-Wool walls and roofs solely for insulation. You tuck of it snugly into walls and roof and into every nd crevice around windows, doors and other ty places. Obviously, this is the only way to house heat-tight.

ically, Balsam-Wool is one of the best insu-cnown. But do not rely too much on the in-g ratings of various materials. There may be a n the figures. Official ratings usually apply to *l inch* of the material—the proper amount to igid materials are only a fraction of an inch Balsam-Wool is sold in both *full inch* and ch thicknesses—the only blanket type of g insulation offering this choice.

gate the subject thoroughly before you spend for insulation. Mail the coupon now for a mple of Balsam-Wool and our instructive t, "*House Comfort That Pays for Itself.*"

OOD CONVERSION COMPANY
Makers of both flexible and rigid insulation
Mills at Cloquet, Minnesota
Sales Offices in Principal Cities

Balsam-Wool is a blanket of fluffy wood fibre that looks and feels like sheep's wool and is its practical equivalent in insulating efficiency. Balsam-Wool is windproof, waterproof, fire-resistant, sanitary and durable.



Balsam-Wool

—the *flexible* insulating and sound deadening blanket

SOLD THROUGH RETAIL LUMBER DEALERS

The Weyerhaeuser Guarantee is behind Balsam-Wool. It assures highest quality and lasting satisfaction to users.

WOOD CONVERSION COMPANY
Dept. 82, Cloquet, Minn.
Gentlemen: Please send free sample of Balsam-Wool and booklet "House Comfort that Pays for Itself." I expect to build a house ☐ I own an old house - - ☐
Name _____
Address _____
City _____ State _____

HELPFUL BOOKLETS FOR THE ASKING

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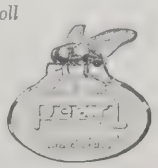

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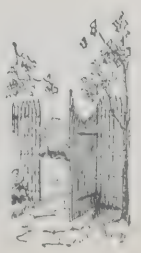

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Keeps You Fit

Plants for the Shaded Garden

Continued from page 367

FERNS FOR THE SHADED GARDEN

AMERICAN MAIDENHAIR (Adiantum pedatum)—1′ high, grows in dry situations.

LEATHER WOODFERN (Dryopteris marginalis)—dry rocks.

MARSH FERN (Dryopteris thelypteris)—moist.

LADY FERN (Athyrium felixfemina)—moisture, 2′–3′, set 1½–2′ apart in fern bed.

NEW YORK SHIELD FERN (Dryopteris noveboracensis)—a little over one foot high; moist.

ROYAL FERN (Osmunda regales)—moist.

CINNAMON FERN (Osmunda cinnamomea)—moist and dry, three feet high, very handsome.

INTERRUPTED FERN (Osmunda claytoniana)—dry and moist, 3′.

CHRISTMAS FERN (Polystichum acrostichoides)—evergreen, dry, 12″ high.

BRACKEN (Pteris aquilinum)—dry and moist, 3′.

One nurseryman who specializes on Ferns lists 40 kinds. He says to plant most of them 9″ apart just below the surface.

VINES FOR THE SHADED GARDEN

ACTINIDIA arguta—a Japanese climber of strong growth with dark green shiny leaves. It has white flowers with purple center and clusters of edible fruit with a fig-like flavor. In my garden it grows on the north in the shade.

VIRGINS-BOWER (Clematis virginia a native with smaller flowers tha C. paniculata but the same fea seedpods and graceful habit of gr Rampant over walls in half under trees, grows in the sun, re

ENGLISH IVY (Hedera)—shiny leaves which make a fine g cover under trees and shrubs. I not winter with me (near Pee N. Y.) but I take cuttings of it ing the summer and plant it out year. Does very well just south

TRUMPET HONEYSUCKLE (Lonicera pervirens)—this is evergreen i South and almost so in the N It is the common Honeysuckle a me has the most delicious frag of any flower.

ROSE Cherokee—white and gro half shade.

ROSE Tausendschon—pink and thornless climber; does well in shade where its flowers are a c pink.

AMERICAN WISTARIA (Wistaria f cens)—grows in the shade flowers in the shade. In South lina it twists itself around tree hangs its drooping racemes o the way up the tree.

*Where special soil conditions a noted the plants prefer dry. Lis Shrubs for the Shaded Garden wi pear in an early issue.

Minor Prophets Among the Perennials

Continued from page 418

Semi-tropicality in Wet Spots. In moist places one expects lush foliage and gorgeous bloom. Several perennials are available which glorify these swampy spots. None is more luxuriant than the Groundsel (Ligularia clivorum) or Senecio of catalogs. The abundant leafage, the glorious yellow flowers produced from July to October would seem too coarse and vulgar in any other place except at the margins of a pool or in a naturally swampy area. But with a planting of the Groundsel we realize the aptness of Longfellow's lines—'Nothing useless is, or low; Each thing in its place is best.'

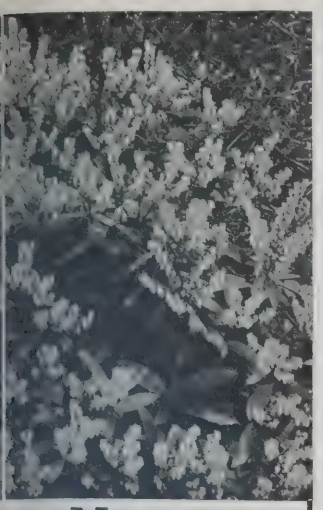
Here in the boggy spots may be planted also the giant-flowered Rosemallows or so called Mallow Marvels, flowers so large as to be truly exotic and tropical in appearance. They serve to gladden the wild places. Of course they grow in dry spots as well and may serve as companions for shrubs and bold groups in the perennial border, nevertheless the swamp is their home.

Associated in such places are the tall slender spikes of the Purple Loosestrife (Lythrum salicaria), of which some nurseries have rose-colored sorts. Here also the Joe-pyeweed (Eupatorium purpureum) and the Boneset (Eupatorium perfoliatum) may be transplanted. Both sorts grow seven feet tall, the former has rose colored flowers, the latter white. These plants are admired by nature lovers, in as much as they are generally visited by a great variety of interesting bugs, beetles, butterflies, and moths.

These moist soil plantings are not complete without a few of the Ferns. The Royal Fern or Flowering (Osmunda regalis) grows to great portions in favorable spots. The de divisions of the fronds rise fro hummock of roots and old stems feathery fertile tips of the fron come golden with spores.

In their season the marsh may som with Forget-me-nots, Car flowers, Yellowflag Iris, Swamp weed, and various grasses.

Shaded Spots. Instead of consi shaded spots as adverse conditio flowers we may choose the prope and make these areas attractive the shade is very dense and the extremely dry. There is a lovely of white, lavender, and blue Pla lilies which prefer such spots. Th catalogued as Hosta or Funkia commonest sort bears white li flowers produced in August. persons for this reason call them A Lilies. The large, somewhat shaped leaves are deeply and tively veined. A still more attr foliage sort is the Siebold Plant which has the same sort of leav they are grayish. The flowers are showy and are lilac. For borde drive beneath the shade of tre Blue Plantain-lily (Hosta co makes a more compact growth a smaller leaves than the other Florists favor a variety whose lea long, narrow, and have rather margins which are attractively gated with white. It is known as lancifolia variegata. All of these pla better in the rather adverse shady than any other showy flowering



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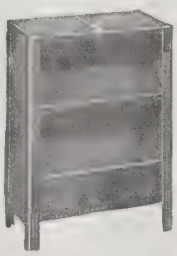

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First the roots—and then flowers, *the first season, if* you get roots like those here pictured, which the rich lime soil, dry sunshiny climate, long growing season and irrigation of the famous Yakima Valley, whence come the big red apples and big potatoes, enable me to ship at 15c. for many fine varieties such as Juanita; 25c. for others such as Isoline; 35c. for L. A. Williamson and others; 50c. for Dream and others, etc.

I ship three types of roots at the same price, in order of preference, so long as the supply holds out:

No. 1 is the best root to be had for love or money, being a plant of one season's growth with all offshoots attached, weight 10 oz.; second choice,

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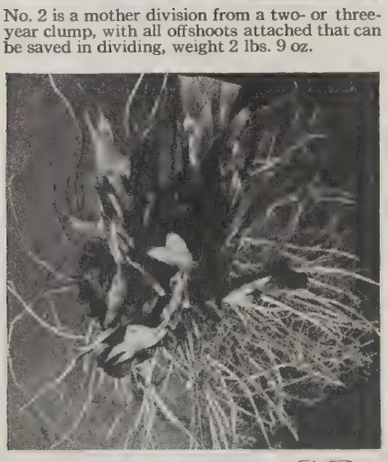


No. 3 is a *strong* single division, weight 13 oz. All pictures taken March 17, 1928.

My price list is neither large nor ornate, but have a copy of it before you order. Send now or save this, as I depend mostly upon satisfied customers for my advertising. Iris seed freely here, and I offer a liberal sized mixed packet from fine named varieties, naturally pollenized, for 25c.

HARCOURT M. TAYLOR
Riverside Gardens
526 Miller Building
YAKIMA, WASHINGTON

Watching the Little House Grow

Continued from page 383

including the furnishings, we class as 'decoration.' Logically and actually there is and can be no such arbitrary division. What really happens is this: the plan of a room is determined by its purpose and requirements; the design of the walls is governed by the materials chosen; and the materials, in turn, must meet certain practical needs and have certain decorative qualities.

To eliminate decoration from an architectural design is to eliminate architecture itself. Take, for example, a wood-paneled wainscot, a mantle, or even a cornice. They are all conceded to be elements of the architectural treatment, for they are part of the permanent building, and yet they all possess decided decorative interest.

In other words, roughly stated, architecture supplies the permanent features of building while decoration contributes the living utensils, so to speak—the furniture, draperies, rugs and other accessories which go into the making of a pleasurable room. But, nevertheless, the two are inextricably bound together from the start.

Even in such details as wiring, the two march hand in hand. Suppose, for example, an architect, in laying out the floor plan of a room, allows a certain large wall space for a davenport. He also appreciates that arrangements must be made to supply both natural and artificial light for those who use the davenport.

The point I am attempting to make is that no matter how many may be called upon to take part in the solution of the problem which the design of a complete room presents, everyone must pull together to attain the goal. Of course, in the case of the little house whose growth we are following, this problem was considerably simplified by the fact that the owner was both architect and decorator. On the other hand, his pocketbook—like so many of our pocketbooks—could not be indefinitely stretched, and in consequence may have drawn certain limitations on the design, thereby increasing the difficulties of a successful solution.

After more careful consideration of family requirements and several tentative arrangements, the furniture was finally placed as indicated in the plan and sketches shown on page 382. Attention is called to the character of the design of the furniture. Every piece serves a purpose, and everything is usable. Considering the fact that there are two boys in the family, there is bound to be a certain amount of wear and tear and the furniture must be such that a nick or spot here or there will not be noticed. Simplicity is the keynote of the entire design which depends on good lines and proportions for pleasing effects rather than on elaborate and fussy ornamentation. In this way, too, individuality is expressed. The rough textured walls and hand-cut woodwork give character to the room and the furniture takes its place logically in the scheme. Additional interest is attained by the use of wrought iron lighting fixtures and hardware. The hand-cut quality is again here emphasized, as will be seen in the sketches of various decorative accessories (see page 382).

A hand-printed chintz has been used for window draperies, a curtain hanging in simple lines at either side of the group of windows. The bright colors of the fabric enliven the scheme, while the proportions of the low windows are accented. To create further harmony, a border of chintz, of the same material as is used for the curtains, has been hung on the mantel shelf (see page 383).

The lesson which this article is intended to teach is that architecture and decoration (as that word is commonly used) are actually one and the same thing. Each wall of a room in elevation should be considered as a composition; the floor plan presents the opportunity to knit into one complete whole the four walls of the room. The proportions of the room (i. e. relation of ceiling height to length of wall, relation of height of doors and windows to their width, etc.) is determined by the principles of architectural composition. These proportions must be emphasized in the further decorative treatment of the room and repeated in the design of the furniture. The illustrations show how this principle has been applied in this particular house. The lack of formal repetition of various forms on either side of doors and windows, yet perfect balance in each composition, lends interest to the scheme and emphasizes the informal and hospitable character of the rooms.

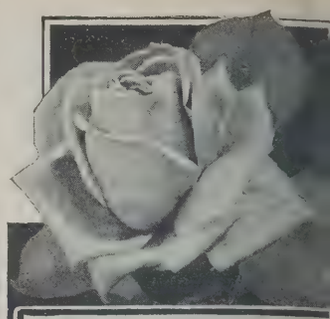
Diversified Walls of To-day

Continued from page 378

and manufacture which embody both structural and decorative value. Of these, Zenitherm combines certain qualities of both wood and stone, seemingly an impossible combination, for the natural products are as different as night and day. It simulates wood in its physical properties, being nailed or screwed in place as wood is, but in its decorative effect it resembles stone. In the evolution of a new material, the tendency is to first develop it as it might be used in place of some natural product. Thus it comes to notice first of all by proving its worth as an alternate to something already widely used.

In the majority of cases, the modern product will be less expensive to install than the product it simulates. In this way its possibilities are appreciated by comparison with the original. Actually, however, it lends itself more readily to individual interpretation than the original, and its future opportunities lie in this fact.

Just newly on the market is a product known as Solidon. It is not a plaster, though it replaces plaster; nor is it a plastic paint, yet it may be used for the same purposes. In other words, it possesses at once the structural qualities of plaster and the decorative opportunities of plastic paint. It may be applied to concrete, brown coat plaster, laths, or wallboards. It dries quickly, eliminating the necessity of waiting weeks for the wall to set before decorating; and, because of its elasticity, cracks are almost impossible. It may be used either where textured walls are wanted or as a surface to which wallpaper or some other decorative fabric may be applied.



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WE have written this lit catalog ourselves, and l of people seem to enjoy simple directness. Here part of a letter received t morning:

"May I also tell you that out of the many alogs received each spring, I enjoyed your most. It seems more the sort of book I sh like to send my friends if I were gardenin business as well as pleasure, and it cont many listings of plants that I want son next ear when I have more gardening spa

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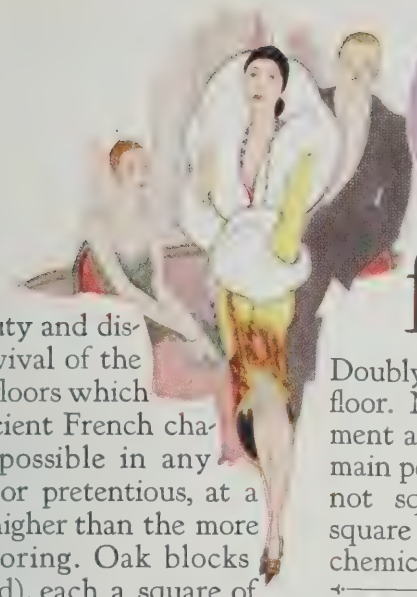

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A New Jersey cottage that might have stepped from the pages of Hans Christian Andersen—a typical COUNTRY LIFE illustration

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Ben Franklin's back was cold

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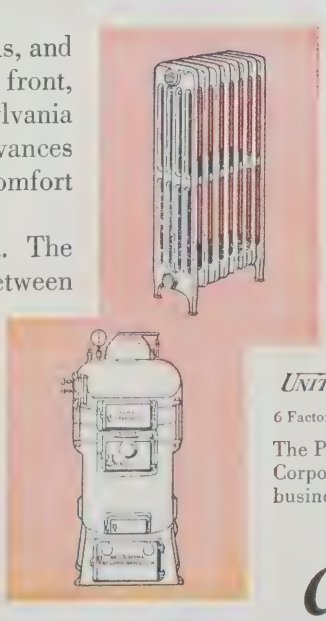
But comfort was not all that Franklin aimed at. The difference in economy alone, he pointed out, "between an English farmer in America who makes great fires in open chimneys . . . and the German who burns his fuel in a stove . . . shall in a course of years enable the German to buy out the Englishman and take possession of his plantation."

Today's most modern development in the art of heating gives in highest degree exactly the benefits sought by Franklin. Comfort and economy, *certified*, are the outstanding advantages of *Capitol Guaranteed Heating.**

This is a binding warranty given with every Capitol boiler before it is installed, specifying the exact number of radiators which it will satisfactorily heat. Automatically, this guarantee selects the right size boiler for your home. There is no guessing or wondering about whether it will be big enough. No worry about whether money will be needlessly spent on one too large. For annoying uncertainty is substituted scientific assurance of thrifty, healthy, economical warmth.

Consult a good contractor about the many superiorities of Capitol boilers; round, square, or smokeless. An interesting, illustrated book, "A Modern House Warming," is free. Write for it.



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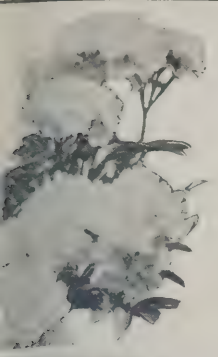
When Customers Come Back for MORE Year After Year



When they insist that the goods I supply are better—
When they find that what I promise is always fulfilled—
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Then you may believe me when I tell you that in my opinion the offers below are absolutely unbeatable in both value offered and quality of merchandise supplied.

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Twelve Iris worth more than $5.00 for $3.00

Blue Boy, B. Y. Morrison, Caprice, Fairy, Hiawatha, Isoline, Lohengrin, Monsignor, Palaurea, Quaker Lady, Sindjkha, Splendour.

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Afterglow, Ambassadeur, Anna Farr, Anne Leslie, Cecil Minturn, Dusky Maid, Francina, Iris King, Juanita, L. A. Williamson, Queen Caterina, Steepway.

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100 Iris in great variety (all named varieties but not labeled) for **$5.00,** 1000 for **$45.00.** Now, what do you think of this? A customer in Pennsylvania wrote that a grower sent him 100 Iris in *two* varieties and called it a MIXTURE. Well, I haven't got the nerve to do that!

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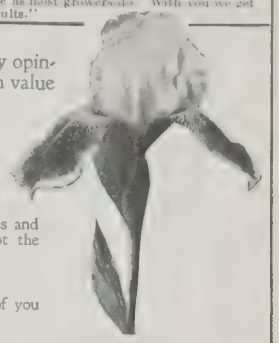

And even here in our ultra conservative Boston, one of my customers writes: "You certainly deserve great success, and I for one shall buy of you when I wish anything in your line. Thank you for superiority of plants, generosity and promptness."

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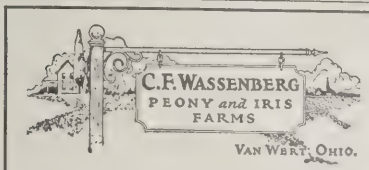

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By Shirley Paine

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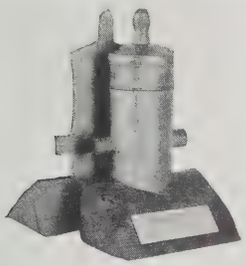
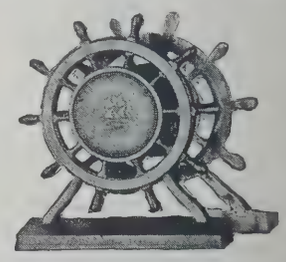


"Old Ironsides"—Decatur! Names to conjure with—a breath of glorious romance from our own history. And now they are making a drive to pay the expense of overhauling this grand old ship and preserve her as a perpetual monument for future generations to see and admire. This has been made possible by taking parts of the timbers, planking, copper sheathing, bolts (made

These historically perfect and delightful maps by Coulton Waugh are becoming something of a rage. There is none of the semi-slapstick humor we get so often in map cartographers. Every detail is historically correct. The style is wholly satisfying, the humor refreshing. There is a nice choice and price range. For the map in black, uncolored, size 16″ x 20″, $1.50; hand-colored, $2.50; hand-colored and shellacked, $3.50. Hand-colored on specially fine deckle-edge paper, $5. All prices postpaid



by Paul Revere), etc., and making them into articles of real use or of decorative historical interest. The wooden book-ends (left) are turned out of the original live-oak timbers, 6″ high x 5″ wide, $15. The metal book-ends (above) are cast from copper sheathing and weighted with lead from the old powder magazine lining of the *Constitution;* size 6″ high x 5″ wide, price $10

Another essential for the summer veranda or living room—a magazine holder which will handle current reading matter and can be carried to whatever room you wish. It is painted either in green or parchment, antiqued, with hand-painted floral sprays on both sides in gay colors; edged with a gold line. It has two compartments and a convenient handle. Size 18½″ long, 11″ wide, and 22″ high. $17.50, delivered 100 miles N. Y.

Something old, yet something new—the Cabot lantern. This most unusual lantern has a variety of uses—for the lodge gate, for porches, porte cochères, boat landings, stable entrances, in fact anywhere that a large amount of light is needed. It is made by the Industrial Arts Shop, who made the wall fixtures shown here recently. Height 17″, width 10¼″, depth 4⅛″. Tin, bright, $28; painted black or rust, $43. Electrified

The most charming little muffin stand of the month which, when not in active use in serving, makes a graceful screen. Besides its pleasing lines, the finishes are particularly attractive; one, shown, is a delicately tinted parchment with the flower panel in colors, all hand done; the other is ruddy mahogany with the same panel. The height is 32″, width 22″. The trays lock securely into both positions. Price $25.50 delivered 150 miles N. Y.

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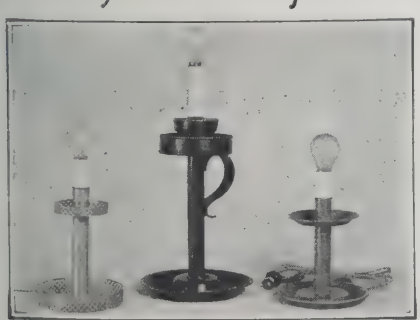

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Venetian Glass Vase, crystal with light blue shading $35

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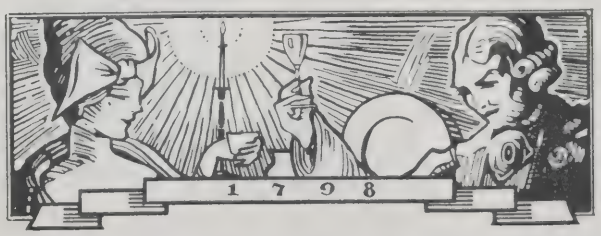
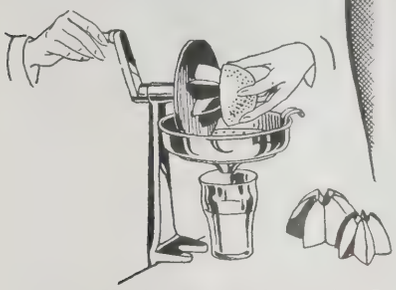
68 SCHOOL STREET
boston

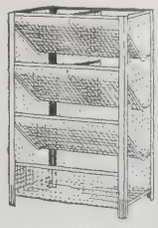


WHAT JANET GRAY SAW AT LEWIS & CONGER

MY Thermos Ice Crock is nothing more or less than a glorified thermos jar. It holds cracked ice. Perfectly wonderful for summer entertaining. Enables me to serve iced drinks out on the porch or lawn without everlastingly trotting back to the refrigerator for more ice. The Crock is glass lined, holds four quarts, and has ice tongs. Mine is finished in mahogany and nickel. You can also get it in a cool green, $25.00.



NOW that the warm days are here I just couldn't do without my Three-Fruit Reamer. It's the quickest way of getting fruit juice in a hurry that I know about. It's made of aluminum, has three reamers—for oranges, lemons and grapefruit. Hold the fruit against the proper reamer, turn the handle, and out streams the juice. A strainer catches the seeds and pulp, $12.50. Sounds expensive, but I wouldn't part with mine for double that.



I'VE found my Vegetable Binet a great help in keeping fruits and vegetables fresh in hot weather. It's perforated, that's why. Permits the air to circulate freely around the vegetables and so prevents mustiness. It's of light weight aluminum colored steel, has six bins (it's the suburban size), is 42½" high, 23" wide, 14½" deep. $13.50. Other sizes. $8.50 and $10.

The articles described here by Janet Gray may be purchased by mail. Just fill in the coupon and mail it to us.

Janet Gray

LEWIS & CONGER
45th Street & Sixth Ave.,
New York City

Send me the articles checked below:
Enclosed is ..... Check ..... Money Order ..... Send C. O. D.

....Thermos Ice Crock (*State color*)	$25.00
....Three-Fruit Reamer	12.50
....Vegetable Binet	13.50

Name .....
Address .....
City ..... State .....

GHB-4

SHOP WINDOWS OF MAYFAIR

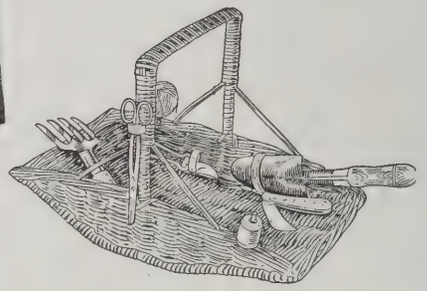
Shopping Service

This interesting little spoon in hand-wrought sterling is made in the shape of a leaf with the stem twisted around to form the handle. It may be used as a tea-caddy spoon, or for nuts, olives, or sweetmeats. It is a lucky find for the small bridge prize. Price $3, postpaid in United States

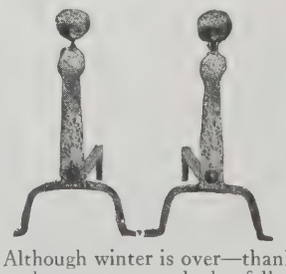
THE WINNIFRED FALES LIMITED ENROLLMENT COURSE IN INTERIOR DECORATING

MRS. FALES is nationally known as a decorator, author and editor. Through personal consultation and correspondence she has helped solve the decorating problems of more than 50,000 home makers. . . . As head of the Studio of Decorative Crafts she has broadened out into a specialist in drapery and other fabrics, as well as in gifts and furniture items. Through the studio she is offering a course of twelve practical lessons limited to one hundred students. These lessons are different. They waste no time re-hashing material that one can find in any public library. They are not merely a reading course—they tell you exactly what to do and when to do it. The course complete is $30, including the twelve lessons, a beautifully bound textbook by Mrs. Fales with dozens of illustrations and working diagrams, a $2 color scheme finder, Mrs. Fales's personal criticism of your own schemes for three rooms, privilege of consultation with Mrs. Fales on any subject connected with the lessons. A real working knowledge of decorating will enable one to coöperate with architect, builder, and finishers to make a harmonious *home*. Lastly, there is a special student discount of 10 per cent. covering anything from a $10,000 bedroom set to an ashtray, during the six months of the course. Write Shirley Paine for details.

At last! An overnight bag that carries frocks without a wrinkle. It is by Winship, long known for fine luggage. Whether the trip be near or far, one's best gowns come forth fresh as dew when unpacked; it is called the *Migrator*. Although only 14 in. long it holds two gowns easily, with ample room for toilet accessories, lingerie—all you need for a night or two. Same hanger can be used in clothes press when you arrive. Chic, smart. Priced as low as $18



Everything to delight the feminine gardener—and masculine as well. This fine basket is fitted with all the essentials—rose scissors, pruning shears, hand trowel, hand spading fork, pruning knife, ball of twine, and spool of wire. It will save many steps in a season, and add much pleasure to the delight of gardening. In the sleigh pattern, as shown $14.25; oval pattern, $16.50, prepaid 100 miles N. Y. Both items stained green



Although winter is over—thank heaven—there are many lucky folk who are opening up a summer cottage, or a lodge in the mountains far enough north to make a fire most pleasant in the evening. Wrought iron is in order for this sort of service, and I have been sent photographs from Boston showing this complete set finished in Flemish iron. Andirons are $12; fire-set, $15; wood basket to match, with polished brass trim and handle, $12. Delivered free greater Boston. This fine firm has a wonderful catalogue showing other specialties

PUDDLE PO

Bathing on your own la

This pool can be put toget ready to receive the water, few minutes and also folde and put away just as quic It is provided with outle

Just imagine the fun, healthful play you and children will have in the door bathing pool.

Price complete . . $4

Playthings for indoors and f outdoors. Games and hor entertainment for family, t children and for your gues

Ask for Summer Cata

MAYFAIR
Playthings Stor
741 Fifth Ave. - at 57th St. -

bring birds to your garden

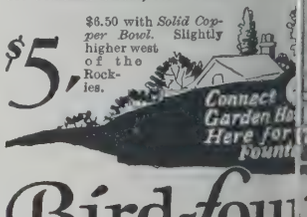
HERE is a beautiful Bird Bath that is also a *fountain* when connected to your garden hose.

Constructed of wrought iron and attractively finished in green and yellow enamel. Stands 40 inches high. Secure from cats. Basin (16 inches in diameter) may be had in either enameled steel at $5.00 or solid copper at $6.50. Lower section is pointed and may be placed anywhere in even or uneven ground.. Assembled in two minutes without tools.

Ask your dealer, or sent postpaid in compact carton on receipt of price on money back guarantee. Order yours to-day.

The Bird-Founte Company
139 Franklin Street, New York

$5, $8.50 with *Solid Copper Bowl*. Slightly higher west of the Rockies.



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TRADE MARK REG'D
A BATHING FOUNTAIN
PATENTS PENDING
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ne 5479 all metal, finished
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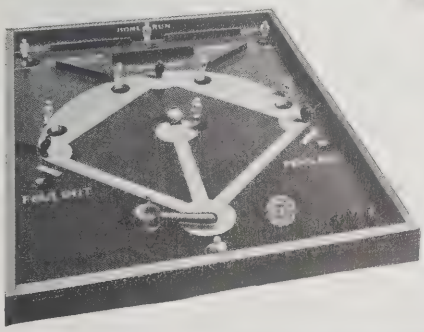
41 2 Folding Clothes Hangers.

SHOP WINDOWS OF MAYFAIR

Shopping Service

I have discovered a bridge table cover for everyday use made of rayon silk in beautiful colors. One feature is the use of elastic at corners to snap on the table securely—a great improvement over the old style covers with many tapes and strings to become knotted. It launders like a charm, and may be had in sand with a peach border; black with red border; hydrangea blue with gold border; grass green with gold border. Price $2. What could be nicer?

At last we have the nearest possible approach to outdoor baseball in a practical game. In fact, it *is* baseball. Every thrill of the game is there, yet it is so simple a child can enjoy playing it hours on end. It requires plenty of skill to hit the ball, and grown-ups probably will be so busy playing it themselves that the youngsters will have to rise at the crack of dawn in order to get their innings. Size of playing field, 17″ x 24″; price $7.50 prepaid 100 miles



There may be lovelier iron and tile tables than this, but I have never seen them. The top is of a big single real Spanish tile glazed in white and beautifully hand-painted in either of two designs, a black house and tree motif, or a flower panel in colors. The base is of heavy hand-wrought iron. Price $45. The large flower bucket with high square handle comes in choice of green, blue, yellow, red, black, with beautiful hand-painted flower panels. $7.75. Watering pot to match $4.25. Postage extra

Courtright House, Boston, enjoys a most enviable reputation for authentic antiques, mainly those of European origin. There are so many to choose from that it seems best to list a typical example for our readers, and then at their convenience they can write in for catalogues and special information upon almost any type of hard-to-find piece. This half-paneled room with stone fireplace is Louis XV, and is genuine, having been moved complete from France

Let HAMMER *on* ANVIL *ring*

THE lure of forged iron hardware is felt by all who love the beauty and sincerity of old-fashioned things. But until recently, it was too expensive and too difficult to obtain. Forged Iron Hardware by McKinney has completely changed all that. Marvelous pieces of genuine forged iron are made by McKinney, with

a fascinating, rugged texture, shapes authentically reproducing the designs of master craftsmen of other times and a rust-proofed finish glinting in the sun like the fiery spark reflected from ancient armor. Many old designs, scores of different McKinney pieces are available. See them on display by your Builders' Hardware Merchant.

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Forge Division, McKinney Mfg. Co., Pittsburgh, Pa.

Please send me, without obligation, the items I have checked:

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☐ Brochure on Forged Iron Hardware

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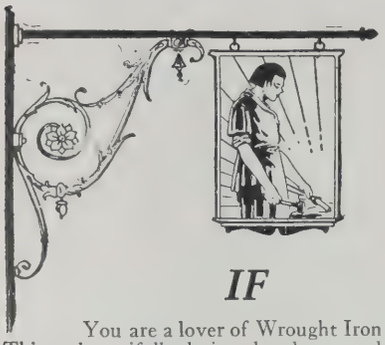

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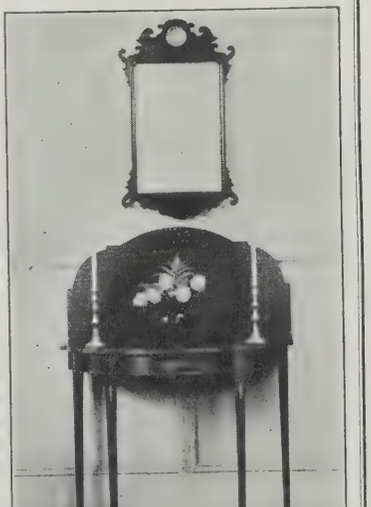

Chippendale Mirror, mahogany with gold leaf
18¾" x 32" (Size pictured) . . $45.00
16½" x 27¾" 35.00
Hepplewhite Console Table of Mahogany with Satinwood inlay . . 51.00
Colonial Candlesticks 8¾" high
Brass . . . . . Each 3.75
Pewter . . . . . Each 5.75
China Bowl (About 6½" in diameter) In Turquois-Blue, Yellow, Pink or Apple-green 7.00

Send 10 cents for illustrated folder

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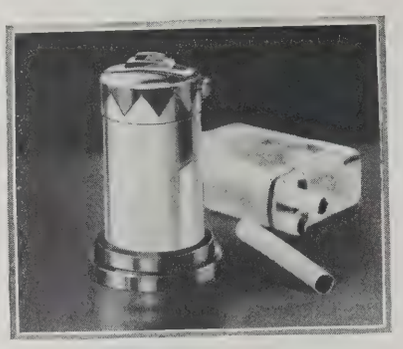
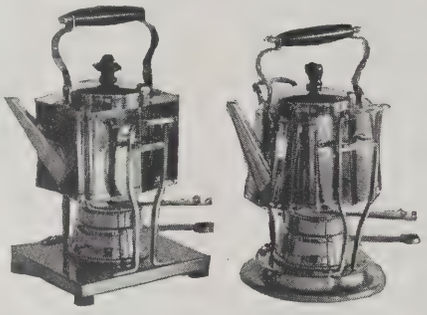
31 Newbury Street
Boston, Massachusetts

SHOP WINDOWS OF MAYFAIR

Shopping Service



What seems to be quite the newest thing in lighters is the TableLyter made by Alfred Vester. It is quite *moderne* in design and is executed in various finishes of Danish silver, and gold and silver combinations. It combines beauty and usefulness, is wind-proof, has no working parts exposed, yet the top is immediately removable for cleaning. Holds enough fluid for thousands of lights. A reliable flame may be had instantly at a thumb's touch. Danish silver, $7.50; combinations of gold and silver, $10. Prepaid 150 miles of Providence



Burnished copper has a warmth which silver cannot rival, and these two tea kettles are the most unusual I've seen in many a moon—particularly the square one. Both are ample in size, both are of heavy solid copper with brass frames, and lined with silver, to last a lifetime. These two units are especially good for the summer veranda. It would take a gale to extinguish the special wickless lamp, and there is plenty of service from one filling. Square, price $27.50; fluted oval model, $29.50. Delivered 100 miles N. Y.

Weather vanes to fit the mood or whim of any estate, summer cottage, farm, or studio. Here are three more examples of distinctive weather vanes which will be of interest to thousands of our readers. They are of solid aluminum with a brass pin, everlasting, and hand-painted. *Crows*, in black and white, length 14", ht. 9", $9; *Kingfisher*, blue-gray, length 8", ht. 8", $7.50; *Canada Goose*, stunning in gray and black, length 20", ht. 11", $11. Other designs of polo, yachting, hunting, etc. in all prices and sizes, both aluminum and copper

There is now a Colonial coverlet made of cream-colored cotton in the Olive Leaf or Sunrise Design, with hand-knotted fringe on three sides. The lovely fringe is made by Mrs. Findley Mast, who made fringe and coverlets for Mrs. Woodrow Wilson and whose work appears in the Smithsonian Institute. Size 85" x 105"; price $13.85; postage collect.

DUNCAN PHYFE DROP-LEAF TABL

No. 325

This is an exquisitely proportioned rep duction of a prized original. Hand-ma of solid mahogany—with a 54" long a 20" wide top, a spacious drop. Extrem attractive as a library, tea, or occasio table.

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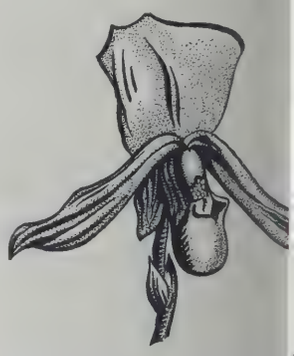

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the names and addresses of the pub- tor, managing editor, and business re: *Publishers*, Doubleday, Doran & Garden City, N. Y.; *Editor*, Leonard rden City, N. Y.; *Business Man-* bleday, Doran & Co., Inc., Garden

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EL Y. DORAN & COMPANY, Inc. By John J. Hessian, *Treasurer*.

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(*Signed*) Frank O'Sullivan. ommission expires March 30, 1928.)

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Only $1.50 Go into your dealer and ask him for a Doo-Clip Grass Shears. Take it in your hand. What a wonderful idea (patented). No more blisters, skinned knuckles or tired wrists. Handles work up and down—blades flat. Just what you have always wanted. Thousands being sold. We know you'll like it. You'll gladly give the dealer a dollar and a half right on the spot. Doo-Clip fits the hand and works smooth and easy. You must get one at once. Money-back guarantee. If your dealer cannot supply you, send his name and $1.50, for Shears—postpaid.

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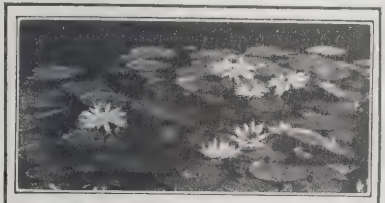

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Your Spare Time What Is It Worth?

Will you sell a few of your extra hours for more of the better things of life—the little luxuries everyone wants?

Your extra hours are worth $1.00 each. You can earn $4.00 or $5.00 in 3 or 4 hours each week right among your own friends and neighbors.

The work is pleasant and dignified. Every intelligent American man or woman can do it regardless of their present duties; and there is no cost of any kind.

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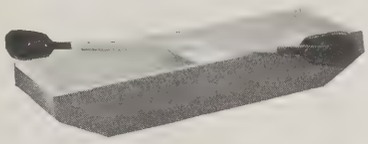
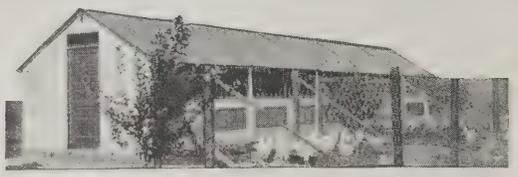
Dog kennel No. 1. Perfectly ventilated. Cedar walls and roof. Painted. Pine floor. Size 2½x4 feet. Price $20.

A revolving feed box, offers food and shelter to your feathered friends. Price $8, with 7-foot pole.



This tight little craft is carefully made of clear cedar, well painted. Easily carried on running board of auto. Size 2x6 ft. Price $15, with paddle.



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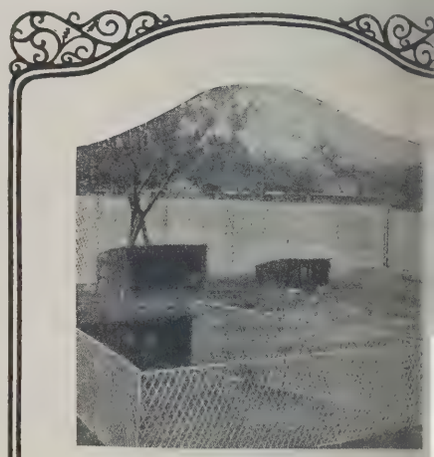

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ALEX SMITH

Golf Professional,
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"My advice to a golfer who smokes cigarettes is that the surest hole in one in the smoke world is Lucky Strikes. They are mild and have a wonderful flavor. They do not affect your nerves and are free from all traces of throat irritation."

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GARDEN & HOME BUILDER

July 1928

Price 35 Cents

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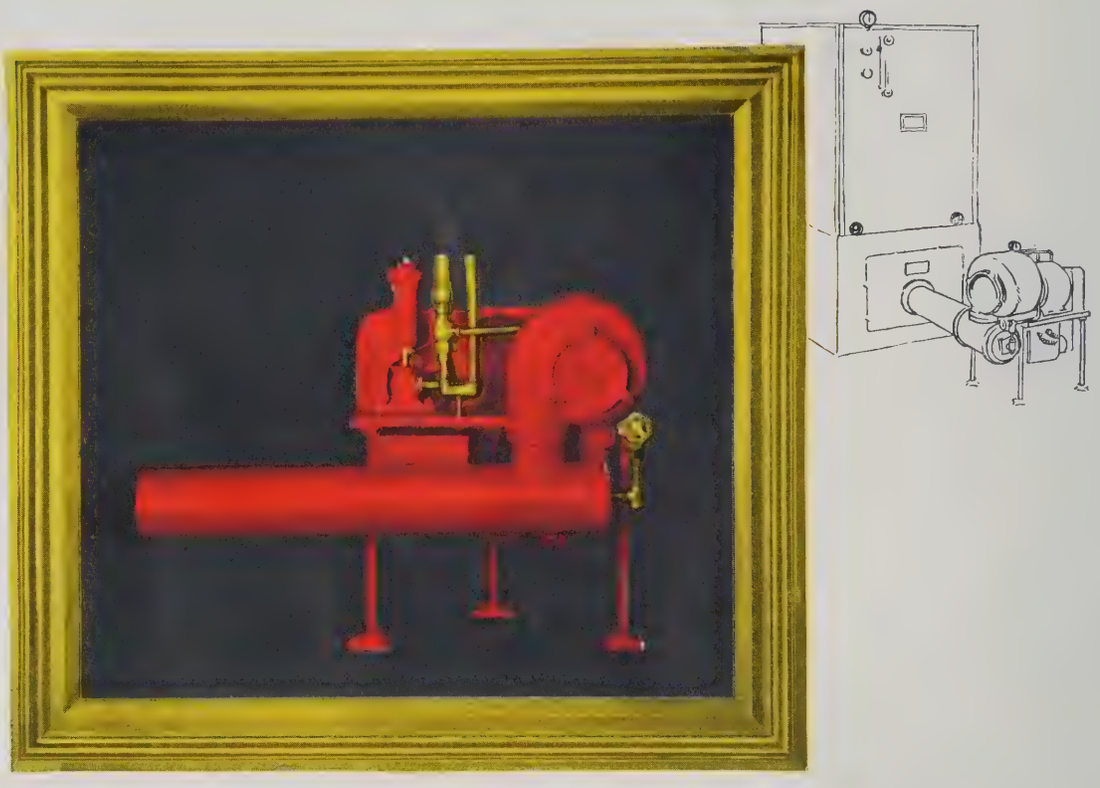
DOUBLEDAY, DORAN & COMPANY, INC., GARDEN CITY, NEW YORK



What Color Do You Want

Color has invaded the basement. If your furnace is red, black, blue, green or white, you can have a QUIET MAY Automatic Oil Burner to match.

Install a QUIET MAY now and pay for it with small monthly payments starting in October. The QUIET MAY is not expensive to buy or to operate. It is made for small homes as well as large homes. The cost is in proportion.

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Your Big Chance!

Never Were Tulip Bulbs So Low In Price Or Fine In Quality

They are actually lower than before the war. Just think of that. Lower and still of the finest quality. The reason for it all is plain. Great over production in Holland.

HARD on the Dutch growers. But easy on you. It's your chance to get the finest of Darwin Tulips at prices unbelievably low. You can get the high priced ones, for about the same as you have paid for the others.

Frankly it just seems a crime to see these finest of bulbs that can be grown, offered at the prices they are. Prices so low that we never expect to see the like again. The last orders for Holland, to be packed there, will have to leave here, the week of July fifteenth. So allow our suggesting that you see to it that your order is in hand in time.

Wayside Gardens

E. H. Schultz, Pres. — Mentor, Ohio — J. J. Grullemans, Sec'y-Treas.

Reg. U.S. Pat. Off.

"A Grace Beyond the Reach of Art"

ROCK GARDENING can be just that, for it gives you a chance to show your imagination. Tall plants and short plants, dwarf evergreens and flowering shrubs may be used, and your own sweet fancy chooses the places where they are to grow.

Unusual rock-garden plants may include Rock Asters, Coral Bells, Sunrose, Moss Pink, Rock Speedwell, Tunic-flower, Soapwort, and a score of others. In the background, use tall perennials and evergreens like Hicks Yew, Dwarf Junipers and Cedars; a few flowering shrubs may also be used.

All plants needed for a rock garden are growing at Hicks Nurseries. We shall be glad to send you a list, if you are planning for a rock garden, and to give you helpful advice about plants and construction. Write us—or come to the nurseries.

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Order Now—before the Leaves turn!

ORDER NOW
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Extraordinary Offer

100 DARWIN TULIPS $3.00

Choicest first-size bulbs sure to bloom. Schling's Special Mixture made from ten of the finest named varieties—NOT the ordinary field-grown mixture usually sold.

A $6.00 value for only $3.00

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To Glorify your June Garden —Lovely with Delphiniums

We offer here a limited quantity of extremely large, picked Bulbs to those who wish unusual results. 10 to 15 magnificent blooms on stalks 4 to 5 feet tall may be expected. Delay may mean disappointment—Order NOW.

75c. each. $7.50 a Dozen

Regular Mammoth bulbs 50c. each. $4.50 a Dozen

Send for our special July Bulb List many other attractive offers at —substantial savings.

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SOW NOW

These delightful and exclusive Schling Novelties for your Hardy Garden.

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Leucanthemum Maxima, Dwarf Avalanche—new dwarf white Marguerite for cutting; of bushy growth, requires no staking	$ .75
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The Entire Collection ($8.00 value) for..... **$6.00**

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Paint Your Grounds in Dashing Colors

Let Nature, the Master Painter, color your grounds in the shades and hues of flowers.

Irises will give life and beauty to your surroundings and increase your joy of living. Special collection offers—free Iris catalog.

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The Peony is the "Flower of the North." Hardy, beautifully varied color range. Approved Peonies are the best varieties—the ones we recommend to our friends. Approved Peony roots are most reliable—mature stock, thoroughly tested out in our own plantings.

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Tells how to grow Peonies. What, where and when to plant, how to fertilize and how to obtain the finest flowers. Write today for your free copy.

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Hitchings Greenhouses

"No, Sir. No flower this morning, Sir. The Mistress is having some ladies to tea in the greenhouse, Sir."

"I don't give a hoot if the Queen of England's coming this afternoon. You scramble out to that greenhouse and get me a flower for my button hole. Think I'm going to town looking like a clerk?"

To look right in the club car, get our booklet, on "Owning Your Own Greenhouse."

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Crocus Zonatus

A superb autumn crocus glorify your rock garde through October and Novemb

Here is a charming rarity—late flowering crocus thus sc tered through your gardens a borders, in September will light you with its large and u usual flowers of palest bl decked with anthers of a gold orange, all through the late F and until the ground freez Perfectly Hardy.

$1.00 a Dozen $6.00 a 1
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Make your reservations NOW. orders shipped at time of planting, August to early September.

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For centuries the world has marveled at the gardening skill of the Japanese. Yet The Iwamoto Floral Company, Tokio, Japan, is using twelve copies of the Gardeners' Chronicle every month. Their first subscription for eight copies monthly was received in February; their second for four more arrived in April, making twelve copies in all.

If the Japanese find the Gardeners' Chronicle so useful, surely no American gardener should try to get along without it.

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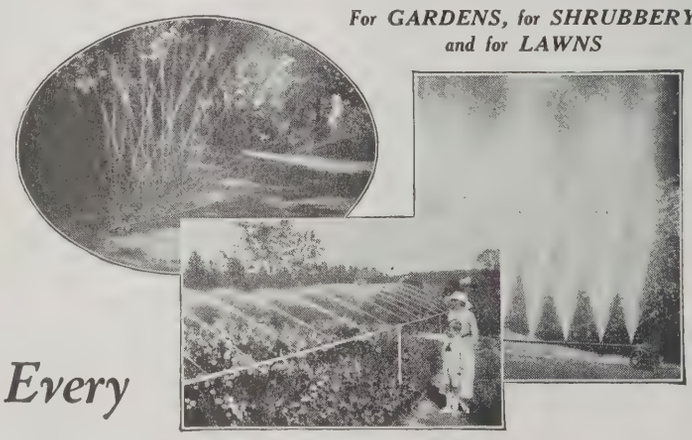
For GARDENS, for SHRUBBERY and for LAWNS



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Watering Problem Solved

by SKINNER SYSTEM of Automatic Irrigation

Gardens that yield the choicest of succulent summer vegetables—shrubs and borders that glow with life and color—lawns of velvety green that win the admiration of all who see them—enjoy them *all* with Skinner Irrigation.

The Skinner System—for 25 years leader and pioneer in overhead irrigation—has in its broad range of equipment the very things that best solve your particular watering problems.

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Tell us what you want to water. And write for booklet, "Rain—for the Asking"—now sent free. You'll read this booklet from cover to cover. Be sure to send for a copy.

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This Book Now *FREE*

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California wild flowers, blooming miles along roadways and across stretches of meadow and desert, h taught a great lesson in the colo treatment of gardens, grounds estates. Here in Southern Califo the mass planting of Iris has reache perfection that sets a model for other parts of the country.

Iris is ideal for mass planting. richness of coloring, variety and of growing, this outdoor orchid is surpassed. With it one may work any arrangement of color height, sity and location.

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Southern California Iris Gard
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The GARDEN AND HOME BUILDER. July, 1928. Vol. XLVII. No. 5. Published monthly by Doubleday, Doran & Company, Inc., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

Our Own Picture Show

Directly above is shown a small part of our showgrounds here at Oyster Bay. Taken from the Hillside it presents rare Daffodils in the foreground, Tulips and Daffodils below.

Center shows our own "Princess Joan," looking rather "peeved" because of being caught in the act of picking posies.

To the right we show a small portion of a ten-acre field in our Babylon Nursery devoted to producing better Daffodils in quantities.

Young Holland in America

YES, and young America inspecting this bit of transplanted Holland on Long Island. From a few square rods but a few years ago our plantings have increased to a few square miles. Soon we will have millions of Daffodil bulbs and then will come the time when even the most modest gardens may hold quantities of this most charming of all Spring flowers.

Instructive Catalogue Tells Whole Story

It offers a comprehensive selection of Dutch Bulbs such as Tulips, Hyacinths, Crocus, etc. besides a still limited but rather choice collection of American-grown Daffodils. It offers only "Bulbs in a Class All Their Own," because they will bloom as our catalogue promises—true to name and description and the resulting flowers will again be the principal Blue Ribbon Winners at the leading Flower Shows next Spring.

What more can we promise! Please send your order as soon as you get the catalogue. Those that order before August 1st will reap special benefits as explained alongside.

ZANDBERGEN BROS., *"Tulipdom"* Oyster Bay, L. I., New York

Nurseries at Valkenburg, near Leiden, Holland, and at Babylon, L. I., N. Y.

Why Order *Before* Aug. 1st?

Your order is sent to Holland at once. It is filled with bulbs that are the "Cream of the Crop." These are packed by experts who handle the bulbs like so many eggs. After that no human hands touch the bulbs till they reach you. And the buckwheat hulls in which they are packed should be scattered among the bulbs because they become good fertilizer.

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In the garden health literally stands for wealth—a wealth of flawless flowers, luscious fruits, perfect vegetables. Your paramount question is, therefore, how to keep your garden healthy.

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Is Garden Health Insurance

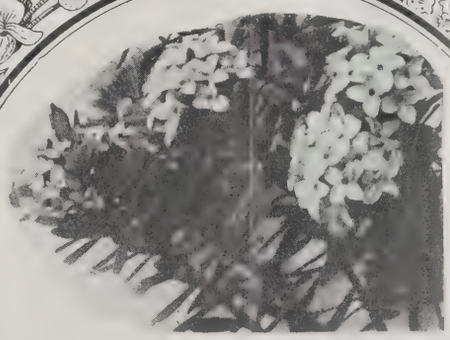
Spray with Melrosine early and often. Use it on all garden subjects. It counteracts rust, blight and other fungous diseases. It kills the most difficult garden pests such as hardshell Rosebugs, Black Blister Beetles, Aphis, etc. Melrosine keeps the garden healthy by protection against harmful invasions of all kinds.

A quart of Melrosine ($1.00) protects a dozen Rosebushes all season, but buy it by the gallon. Use it on everything in your garden. At all good horticultural supply stores or, if not in your neighborhood, direct from us.

Instructive leaflet on request.

GARDEN CHEMICAL COMPANY

Park Avenue & 146th Street New York, N. Y.



Our Loss—Your Gain

The partly open winter proved a terror for some of our broad-leaved Evergreens. Many burned badly—among them the fine stock of Garland Flowers (Daphne cneorum) about which we told you last April. So we cut them back and they have come back, better than ever, with their shining evergreen foliage and delightfully fragrant pink flower clusters.

Planted During July–August Will Bloom Freely Next Spring

Early fall planting will cause them to become firmly established before winter's arrival. Every plant will be a specimen. The larger sizes will come with large ball of soil, tightly burlapped, packed to arrive in perfect condition.

	Each	10	100
6 to 8 in.	$0.75	$6.50	$60.00
8 to 10 in.	1.00	9.00	85.00
10 to 12 in. spread, B. & B.	1.25	11.50	110.00
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A Catalog abounding with many other unusual offers of unusual plants of special interest to nature lovers gladly mailed free on request, and please mention Garden & Home Builder.

GILLETT'S *FERN AND FLOWER FARM*

3 Main St., Southwick, Mass.

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Summer Planting

Have you made plans for planting this month?

Perhaps it is evergreens—additions to your perennial border—or possibly something more extensive, that you have in mind.

Whatever your plans may call for, we assure you Bay State can supply it.

We know also that you will appreciate the quality of our stock and our method and care in packing.

Write to-day for our 1928 illustrated handbook which lists all choice varieties of Evergreens, Deciduous trees, Shrubs and Hardy Garden Perennials—all of which we grow in large quantities.

THE BAY STATE NURSERIES
W. H. Wyman & Son
North Abington Mass.

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The Barclay Delphiniums

THE greatest collection of Modern Super-Delphiniums of two continents.

Amazing in their size and giant stature, colors that are bewildering—from the brilliant "self" shades of blues and purples to the delicate pastel shades that defy adequate description;—you had best come and see them in June and July.

Don't let summer pass without visiting this greatest of all American commercial growing establishments, devoted exclusively to:-

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OUT-DOORS and UNDER GLASS

If you cannot pay a visit ask for my Delphinium booklet. It tells a wonderful story of this great specialty of mine. Orders taken now for Fall delivery.

James Forbes Barclay 848 Pelhamdale Avenue NEW ROCHELLE, N. Y.

Scott's Creeping Ben for Perfect Lawns!

Sod in six weeks! A rich, velvety stretc lawn that chokes out weeds before they grow! With proper care no reseeding is necessary. You will have a deep, thick, form turf that's everlasting and makes home a beauty spot. That's what you'll if you plant Scott's Creeping Bent.

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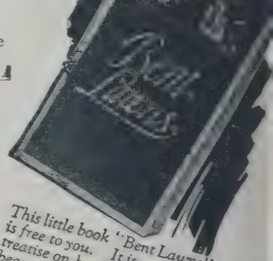
Creeping Bent—long recognized as the grass for golf putting greens—is now pro ing Super-Lawns. Instead of sowing you plant stolons or the chopped grass—in a few weeks you have a luxuriant lawn like the deep green pile of a Turkish carpet.

Fall is the best time to plant.



This little book "Bent Lawns" is free to you. It is a valuable treatise on how you can have beautiful lawns. Write today for your copy.

O. M. SCOTT & SONS CO
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LOVELY ROSES INVITE YOU!

The newest roses of 1928, the roses of long ago, the favorites for generations—all are blooming *now* in the Star Rose Gardens. They invite you to come see them—hundreds, thousands of glorious roses—glowing red, glamorous pink, golden yellow and gleaming white. Come—come any time this month, next month—until frost!

West Grove is on the main highway between Philadelphia and Baltimore. There are splendid tea houses near—come, feast on Star Roses—and good food! Or, bring your lunch, eat it in our gardens while you are enjoying a feast of glorious roses.

Come!

THE CONARD-PYLE CO.
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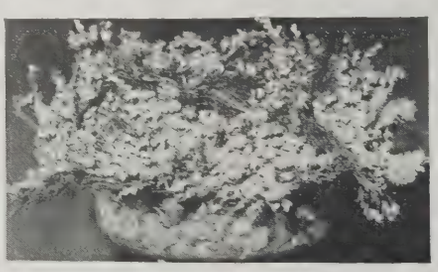
Ever Ready Table Decoration

Do you ever need a table decoration on short notice?

THE NEW COLORED DESERT FERNS



will solve your problem. All you need to do is put them in water in a pretty bowl, and in half an hour you have the attractive display shown above, and at such small cost! These Desert Ferns may be had in blue, green, purple and several other colors. They last forever if water is changed daily, or they may be permitted to dry and rest, and used only when needed.

Let us send you a few at these reasonable prices:
25c each; 3 for 50c; 7 for $1.00 postpaid

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10 handsome specimen Opuntias for **$2.50**
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Genuine Indian Blankets **$5.00 to $50.00 each, best grades**

We have a wonderful large selection of rare Cacti and many Indian Curios. Please let our Free Catalogue acquaint you with all we offer.

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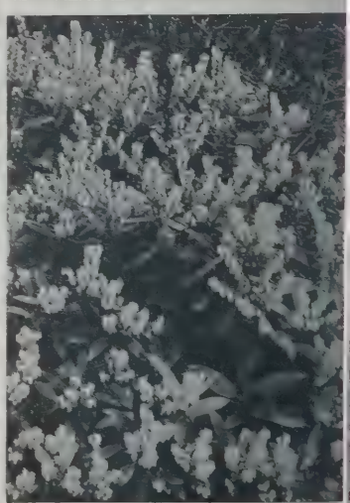

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To those who are interested in n tive plants I shall be glad to ser my latest catalogue, which includ shrubs, vines, broad-leaved eve greens, aquatic plants and lilie Have you asked for your copy?

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Glorious Creations of Rare Beauty

For more than half a century we have been growing the world's most beautiful peonies. Peony lovers who want new and original creations come to us year after year for their plants. The picture of the little girl above with two wonderful blooms of Martha Bulloch gives an idea of the size and beauty of Brand Peonies. You can well be proud of your Peonies when you grow from original Brand Stock.

Prize Winning Beauties

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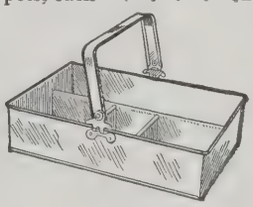

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GARDEN & HOME BUILDER

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FORECAST for AUGUST

IT SEEMS hardly possible that the garden cycle has rolled round and brought us once more to August and bulb planting time. Gardeners must hurry to get their orders written, if they have not already done so, and plans for the actual planting are in the air. 'Our Own Elysian Fields' by Mrs. E. A. S. Peckham is full of helpful suggestions as to how and when to plant, color combinations to strive for, and unusual bulbs to buy. Further help is found in Eleanor Roche's contribution, 'A Little Garden for Spring Effect',—planting plans, accompanied by keyed lists of bulbs. 'Gladiolus by the Million', by Forman T. McLean, is another fascinating story for the gardener—the new varieties of Gladiolus which make for change and interest in the garden.

Turning for a moment to the inside of the home we find 'Bathrooms for Color and Comfort' by Florence Brobeck—more light on the present-day tendency in decoration. Leontine Henry Sanders contributes 'Screens Decorative and Serviceable'; and 'Glass Adds Gaiety' by Hanna Tachau is an authoritative discussion of ways of combining attractive colored glass for harmony and beauty. Rossiter Snyder in his account of 'Planning for Antique Hardware' tells how the house must be constructed with the hardware in mind in order to make the whole a harmony of style and furnishing.

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

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SPRINGFIELD NEW JERSEY

Come Into the Garden

SOMEONE once wrote, when giving advice to gardeners, to the effect that they map out a program and then follow it. As a matter of fact, gardening simply won't run on a definite schedule; no one knows what the weather will be like nor can anyone say, with certainty, that plants will grow just so much and bloom at a specified time. Even the commercial florist who, more or less, lives with his plants is apt to find things refusing to work to schedule. Last Easter, for example, many commercial growers failed to get their Easter Lilies into bloom on time; others simply could not hold back their Tulips and other bulbs. The fact that the home gardener can spend an hour outdoors before he dashes for the 7:30 train and another hour or so in the evening because of daylight saving, does not help a great deal; so much depends upon the attention given at the right time. And a lot also depends upon the weather during his periods of absence. He dare not leave his seed frame unshaded, however dull it may be in the early morning. And if he has a particularly choice bed of seedlings that can stand full exposure, it's a hundred to one that some prowling cat or wandering dog will select that spot for a bed.

THE HOME GARDENER HAS TRIALS

Truly, the amateur gardener has many trials and tribulations, but despite them he usually gets a full measure of satisfaction which discounts the worries. Grass is a good thing, a very beautiful thing in its place, but out of place it is as great a pest as any other weed. This season, something akin to lawn grass has made a desperate effort to take possession of some borders, rockeries, and paths, and the bitter fact is it was deliberately put there. Tiring of using straw for winter covering which always resulted in a certain amount of Rye grass around, some salt or marsh hay as is used by the nurserymen was ordered. The 'salt hay' came in bales but it obviously was something else for it left behind a mass of seed akin to Timothy and, in such quantities that, with the opening of spring, parts of the garden began to resemble a well-seeded lawn. That's one of the occurrences that are apt to crop up and knock the garden program.

SOME GOOD RECENT BOOKS

That there is a very marked tendency toward the publication of better books for the garden lover is clear. In the multitude of books about gardening that come from the presses year by year a very great number merely ring the changes or mark time for a special purpose. Once in a while there comes a volume of really new material that lifts us forward into a new starting point, as it were—a place from which we may measure future progress. Among some recent outstanding books of this type I pick out the following:

More Aristocrats of the Garden. Mr. Ernest H. Wilson has given us here exactly what the title says. It is an extension of or supplement to his earlier *Aristocrats of the Garden*, dealing with plant families and the outstanding species in each genus as adapted to garden use and why they are so adapted; but also, we find some general discussions on the uses of plants for foundation plantings, for town-house gardens, shore gardens, ground covers, etc., etc. So much experience has accumulated so rapidly during the last few years concerning the newer hardy shrubs and trees that this review of their qualifications is most helpful. That it is from the hand of the one who has not only grown them but who also was often the original collector or introducer gives the whole volume a peculiarly personal flavor. The whole of its 280 pages sparkle with salient facts. The illustrations, forty-three, mostly Mr. Wilson's own photographs, really help the text. (The Stratford Company.)

Garden Cinderellas. Under this fanciful and non-explanatory title, Mrs. Helen Morgenthau Fox gives us a practically complete treatise on the most intriguing, fashionable flower of the moment—the Lily—as is explained in the subtitle 'How to Grow Lilies in the Garden.' It is an ambitious volume, 264 pages, that entirely reviews all the present-day knowledge of this fascinating, tantalizing, and often completely mystifying family. The gardener's viewpoint is maintained throughout the text with a general review of the Lilies of the world occupying about half of the bulk. Mrs. Fox might be called the patroness or benefactress of Lilies because she has in many ways stimulated interest and directed the attention of others to them. She has spared no pains in gathering together the reports of experience of others who have worked, or played, with Lilies and she has grown or tried to grow them all in her own garden so that the book is vibrant not only with the fire of the enthusiast but with the significant practical experiences and keen observations of an ardent worker. (The Macmillan Co.)

Pleasures and Problems of a Rock Garden. Here we have an almost monumental treatise and, as might be anticipated when we think of the rock garden in America, it is by Louise Beebe Wilder who has achieved the position of our leading rock-garden culturist. Mrs. Wilder's absorbing interest concerning plants is an intrinsic interest in the plant itself for itself. She is not greatly concerned with its use—she is essentially a collector. At the same time Mrs. Wilder writes with a fascination and charm of words that gives them a musical cadence so that one has to catch up one's self periodically, and deliberately study the subject, as otherwise the reader is likely to go on and on from the sheer delight of reading without gathering the very essential facts.

The volume is divided into two portions. The first deals with the plants in various groups: seasonal, color, family, etc. The text is supplemented by lists of species for specific classification. The second part of the book comprises an alphabetical picture gallery of some two hundred 'Rock Plants and Alpines as They Grow,' practically all from photographs made in the author's own garden, which fact alone tells of the great interest that she has in her subject and the great variety of material from which she has drawn her experiences. 'Pleasures and Problems of a Rock Garden' is really more than its title suggests. It is a comprehensive manual of rock-garden plant material regarded from the American viewpoint and is the only book of that type to which the American rock gardener can turn with confidence. (Doubleday, Doran & Company, Inc.)

Leonard Barron

Alluring indeed is this little lakeside cabin designed by Boyd, Abel & Gugert for Mr. Horatio Lloyd, Haverford, Pa. (Photograph by Philip B. Wallace)

In the Ozarks not far from Joplin, Missouri, is this well-constructed cabin known as Chinkapin Lodge

Building Your Own Log Cabin

HARRY McGUIRE

Associate Editor of 'Outdoor Life and Outdoor Recreation'

Drawings by Orville J. Grisier

ONCE, long ago in the more difficult days, a man's house was only built by the sweat of his own exertion; and in Homeric times 'His native home-deep imaged in his soul' was imaged stronger, and cherished more deeply, because his own hands had labored to build it up. But in these times most people's homes are largely the product of other people's minds and muscles, and it is only in building a secondary house, or summer cottage or cabin, that a man can indulge his natural desire for rearing himself a dwelling place with his own tools and his own mind and energy. It is almost needless to point out the health-building and recreational sides of such joyful 'work' for the normal person; even the driven city clerk who has had no experience with the wilds save in his dreams craves to have his own home in his own more or less secluded beauty spot. More people would build such homes if they knew how. This article aims to give you a start, to put the tools in your hands, as it were, for the first time. The rest is up to you!

Try to choose a site with a southern exposure, other advantages being equal. Two things above all should be near by: pure water and dry wood. View, trees, and other such matters of environment are so personal as to preclude useful advice. Even the matter of whether the logs are to be horizontal or vertical turns in most regions on individual taste; I, perhaps naturally, prefer the very popular Western style, which is horizontal, and I will assume throughout the article that such is to be your choice.

MAKING THE FOUNDATION

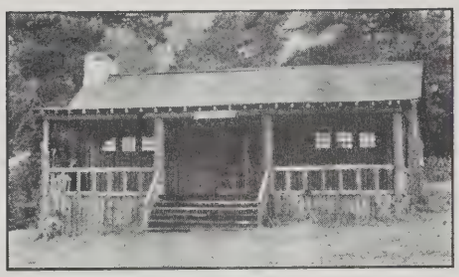
The foundation should extend below the frost line. The size of the foundation will depend upon the character of the land you are building on. If it is of clay or sand, lay your foundations deep and wide. Flat stones make a good foundation, but concrete, either in forms or blocks, makes a better. It is possible to erect a cabin on no foundation except large stones imbedded in earth at the four corners, but such should be a last expedient, unless your cabin is to be a very small affair. A mud-sill house, that is, one without foundations other than large logs, is not advisable except as a last resort. If this is necessary the foundation logs must be treated with creosote with extreme thoroughness. Pulverized charcoal stirred into boiling linseed oil until the mixture is as thick as paint is a recommended preservative in such cases, because when you put your first logs on the foundation there is an open space left on two parallel sides due to two of the bottom logs being chinked into the other two. The foundation on these two sides should be half the width of a log higher than the rest of the foundation.

A typical Western camp showing horizontal use of logs

The foundation should be from 12 to 20 inches wide—the wider the better. Up north the frost line extends as far as three feet into the earth, so $3\frac{1}{2}$ to 4 feet can be called a maximum foundation depth. Surely treat the lower logs with creosote, to preserve them. Two or three warm applications with a brush should be given. Let your logs dry well after all applications of preservatives.

BEST KINDS OF WOOD

The kind of wood used will depend upon the region you are building in; but spruce, pine, cedar, fir, hemlock, tamarack, and balsam are all good woods. Mostly for beauty's sake, many people do not peel their logs. I would advise doing it. Peeled logs lessen decay, result in a cleaner interior, and do not harbor bugs or dampness to the same extent that the unpeeled do. All peeled logs should be well treated with linseed oil, preferably hot; they should be treated again every

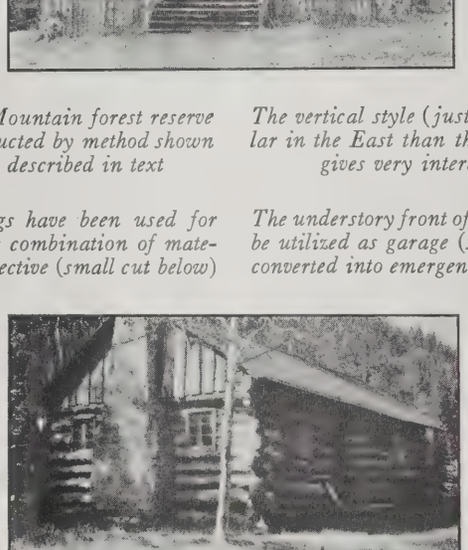


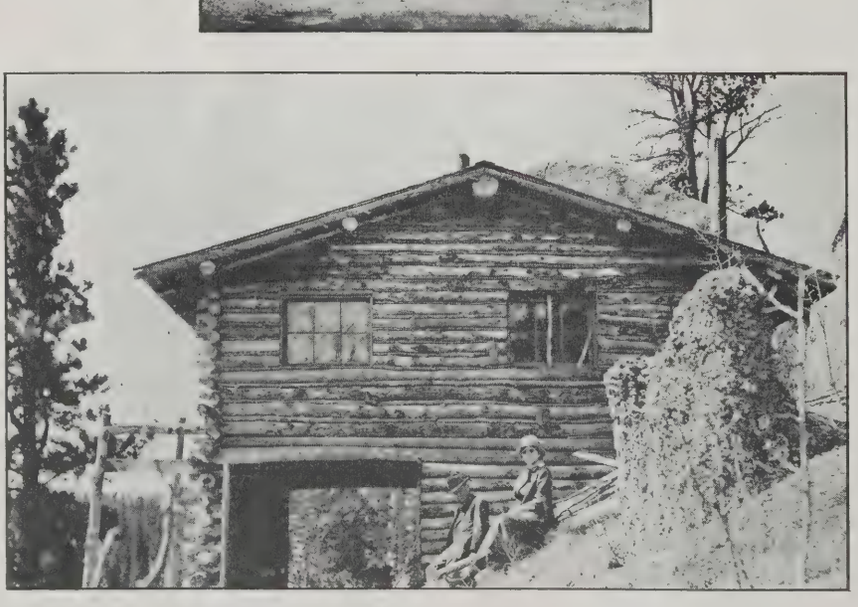
Cabin in a Rocky Mountain forest reserve (top picture) constructed by method shown in Fig. A and described in text

The vertical style (just above), more popular in the East than the West, and which gives very interesting effects

Slabs instead of logs have been used for gable ends and this combination of materials is certainly effective (small cut below)

The understory front of a hillside cabin can be utilized as garage (see lower picture) or converted into emergency sleeping quarters





two or three years after the cabin is up In a few years they will take on a rich brown lustre that is better looking than the naked dry color of the logs before treatment. In regions where wood-borers are common, more advisable as a first application is creosote and turpentine half and half.

PUTTING THE LOGS TOGETHER

Put your straightest and largest log down first, on the foundations. There are a number of methods of notching the logs so that they will join together at the corners. For the comparative novice I recommend the lock-joint style which consists of hewing out a half circle halfway through the log on its under side, and fitting this notch over the upper half of the log below it, which is of course at right angles to the log just notched. A foot or a foot and a half of every log should be left protuding at each end beyond the actual corner of the cabin. Each log will naturally show a variation in width between its butt and upper ends so in fitting the logs on one another, alternate them, first butt end left, then butt end right, etc.

A simpler method than a cabin joined by notching is illustrated in Figure A. If this method is used I would advise having the logs cut precisely the right length at a mill, if that is possible, because a exactly even fit against the end-boards is necessary. A big spike holds the ends of the logs to the end-boards. The corner pole is not nailed into the angle between the two end-boards until the walls have been raised.

To square your corners as you raise the logs, cut a straight stick just ten feet long. This stick should touch a point exactly eight feet from the corner on one side of the right angle, and six feet from the corner on the other inside wall, provided your logs are of equal thickness. If the walls do not prove up by this standard, they are out of line, and must be adjusted.

PLANS THAT PROVE CONVENIENT

There are as many different plans for cabins as there are different temperaments; consequently, the plan and sketches appended to this article are simple, and embody only my own preferences. I think most cabins err on the side of too little sleeping space, and too much porch space which, if made only a little more snug could be used for sleeping. If a goodly number of swinging windows are put in the living room, a porch is often not needed—that is, an open porch, which cannot be used for sleeping. In the plan offered herewith (Figure B) the inside size of the cabin is 22 x 23 feet. One bedroom is 8 x 9 ft., the other 8 x 13. The

first will accommodate a double bed; the second a double bed (or folding day bed) and a cot or single bed: a total of five people. Emergency accommodations are also expected in the living room. I do not believe in cabins containing a single bedroom. In this I think I have the support of most wives who are also called upon to be hostesses.

ADDING THE KITCHEN

The kitchen in this plan is really a shack built on after the cabin proper has been raised. Slabs instead of full logs can be used for outside facing; nailed to a framework of 2 x 4's, with substantial vertical corner poles sunk in the ground.

The vertical posts will support the kitchen, as also the porch. Holes in which the ends of kitchen-roof beams (as well as porch-roof beams, if the porch is to have a roof) will fit, should be cut into the main logs when the main wall has reached the proper height. It is not necessary that this kitchen *look* like a shed; but its construction should be light; and to make for ease and simplicity in building the main cabin, it should not be considered an integral part of the plan. It is a unit by itself.

DETAILS OF CONSTRUCTION

Skids will probably be necessary to raise the logs when you get toward the top. Lean two logs at about a 45 degree angle, the top ends of the logs resting on the top of the uncompleted wall. The log to be raised will be rolled up these skids. Take two ropes with ends fastened securely inside the cabin, pass the free ends of the ropes around the log to be raised, first under it and then over it, then back inside the structure; from where, by pulling on the free ends, the log may be rolled up.

The height of the walls should be not less than seven feet. From that point on taper the logs on two sides, so that they will rise to a peak. In these gable ends notches should be cut for two or three lengthwise rafters on each side. Let the rafters project well beyond the walls to provide for water-shedding eaves. The rafters will help to hold the eave logs in place—also these should be spiked to one another and to the rafters. Nailing closely fitting boards to the rafters is the next process, an easy one. Cover with prepared roofing material (which is not expensive), shingles (with five inches to the weather, 1,000 shingles will cover 130 square feet), or, if you are handy with a frow, you may take pleasure in splitting your own shakes.

Where snows are heavy the angle of the roof should be steep, about 45 degrees; where precipitation is not very great, appearance will be (*continued on page 503*)

Sketch, plan, and construction of cabin described in text

Figure D (left and below)

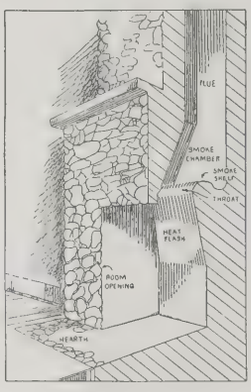
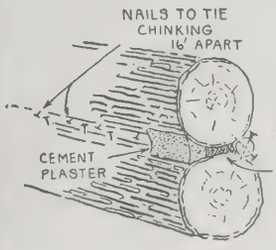


Figure E (left)



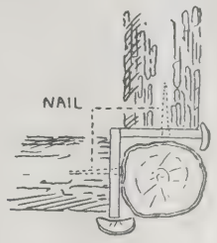


Figure A (above and below)

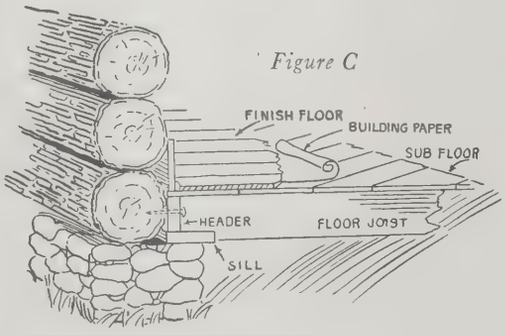
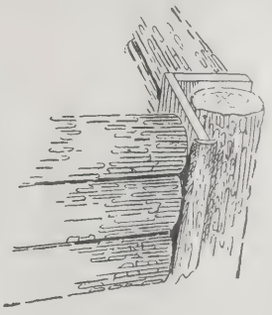


Figure C



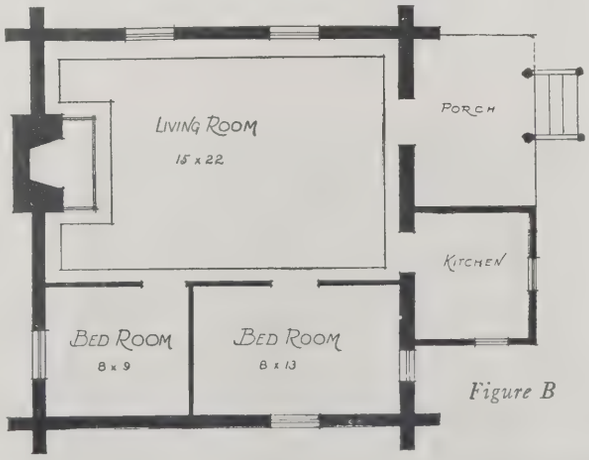
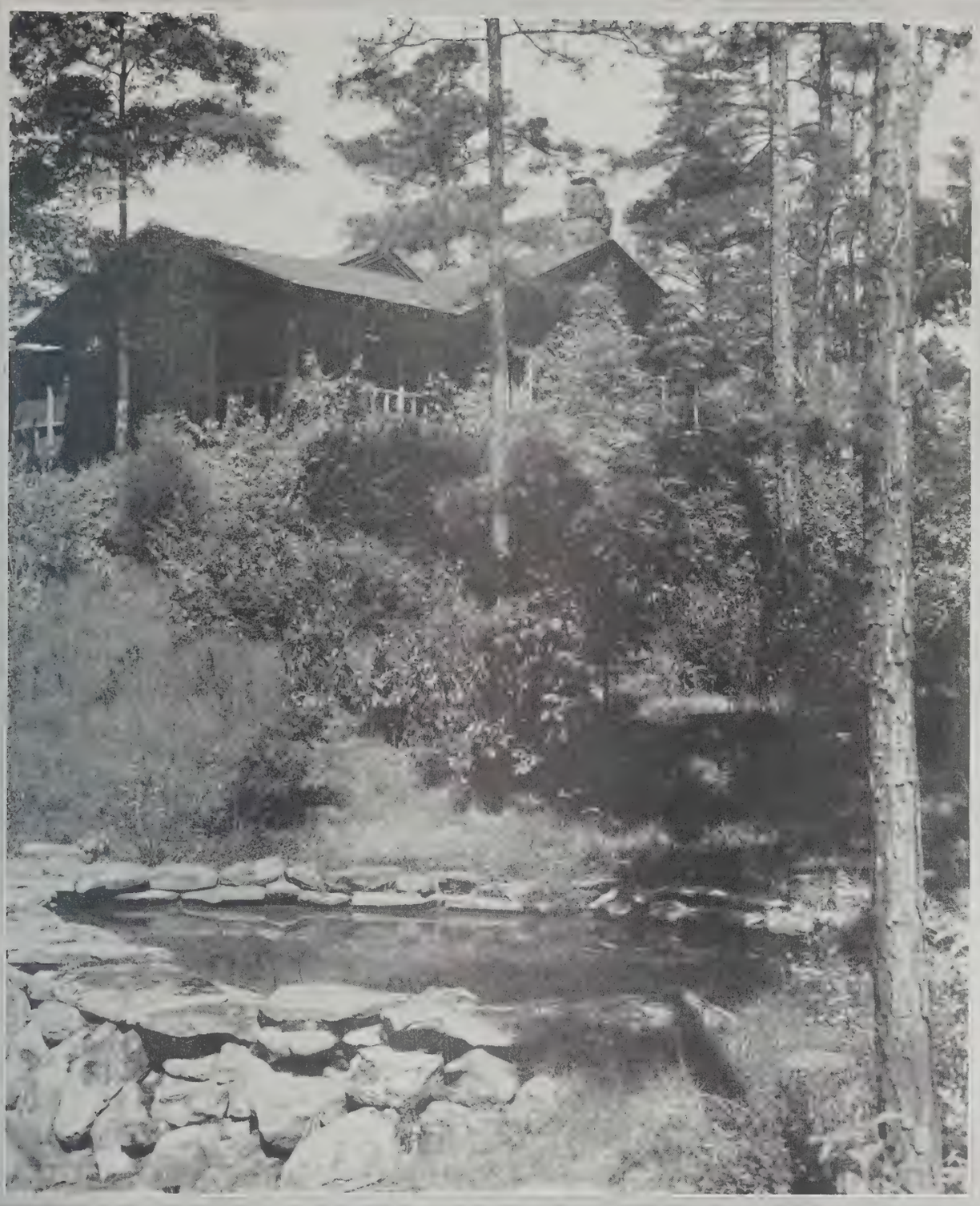


Figure B

The furnishings are by no means the haphazard odds and ends which often do service for summer living but are carefully thought out and of unusual interest. The living room is shown above, dining room and bedroom below

Photographs by Tebbs & Knell



A SUMMER LODGE ON THE LITTLE CAHABA

Designed for Mr. Theodore Swann by William H. Kessler

Rustic in character, low and spreading, this one-story cabin admirably fits both site and setting. Porch uprights are minor repetitions of the upward thrust of tree trunks, and the mass as a whole seems the logical completion of this particular rise of ground. The stone-rimmed pool is, too quite in keeping. In this delightful spot on the Little Cahaba River near Birmingham, Ala., the owner spends his summers

Above. The path along Mrs. Emory L. Ford's garden at Grosse Pointe in springtime when the Tulips are abloom

IN TWO MICHIGAN GARDENS

In the spring and fall when an outdoor meal is the natural desire of every man and boy, an oven and grill built into the side of a hill on one's own grounds, is a jolly thing to possess. This one belongs to Mr. Harry Taylor of Brady Lane, Birmingham, Michigan

Making Your Camp Comfortable

Conveniences that take the edge off discomfort without spoiling the fun of 'roughing it'

WILLIAM DRAPER BRINCKLOE

mill is an excellent wer system for a camp

THERE'S an idea!' announced Anna, joyously.

Anna is my wife; and her ideas are usually a lot better than mine, though of course I don't tell her so.

'Where?' I asked, casually.

'There; that empty stable of ours, right down by the creek. Let's rent it to summer tourists!'

'Fine' I said, with heavy sarcasm. 'Front!—lead the lady and gentleman to stall thirteen; and see that there's fresh straw.'

'Don't be silly! You know I didn't mean that.'

'Well, you said——'

'No, I didn't!—I said we'll rent the stable to summer tourists; and so we will. But of course we'll fix it up nicely, and turn it into a regular camp cottage, with plumbing, and all that.'

'But that will cost at least——'

'No, it won't!' said Anna, decisively. 'We'll leave all the nice old beams and things just as they are; with a coat of whitewash to make them clean. We'll put in a shower bath, and a coal-oil heater to warm the water; and a cheap toilet, and so on. It won't cost much, will it?'

I had to admit that it wouldn't. Still, how could I fix the stairway? And how about the water system? And how——

'Oh, I just *know* you can do it, you can do anything!' said Anna, guilefully.

Of course I puffed out my chest, and agreed that I certainly could do it! And Anna said how *wonderful* it was to have an architect for a husband—with that innocent smile which she always wears when she's gotten exactly what she wants.

The carpentry was very simple—an open stairway, two or three partitions of rough boards, a few windows, and a bit of trellis-work at the front. But the equipment was a bit more difficult.

Fortunately, there was a well near by; and an old pressure tank, which had once supplied the stable with water. This was set in the ground; a pit was dug at one end, bricked up, and covered with a wooden trap door (see sketch below). We put a small iron force pump in the pit; this sucked water from the well, and forced it into the tank. As more water was driven in, the air at the top was more and more strongly compressed; until a pressure of 25 pounds was reached.

'There, you've done it! I knew you could!' said Anna, diplomatically, when I showed it to her.

'Yes, I'm afraid I have done it!' I answered, gloomily. 'Pumping by hand may be just as fine exercise as golf; but our tenants won't think so.'

'Well, who wants them to think so? I've offered that Cooper boy twenty-five cents a day, to pump the tank full morning and night; he jumped at the offer.'

AN INGENIOUS BATHROOM

I changed the subject, hastily; and took her over to see the bathroom (see below).

This was an old cow stall, somewhat remodeled! We laid a concrete floor, sloping to a central drain; above this a plain shower-head was fastened to the joists of the hayloft. The shower was surrounded with corrugated galvanized iron roofing—very inexpensive, but very effective in keeping the spray from soaking the rest of the room. A small lavatory was fastened to the wall; the waste ran out on the floor of the shower, saving a lot of piping and trapping. I happened to have an old frost-proof water closet, but in any event I would probably have chosen this type for the camp. It costs little, is easily set, and not likely to clog; moreover, it cannot freeze and burst, even if the water is not baled out of the trap, when camp is abandoned in the fall. If used all the year round, it might get ill-smelling; but with six months of rest, it is never offensive.

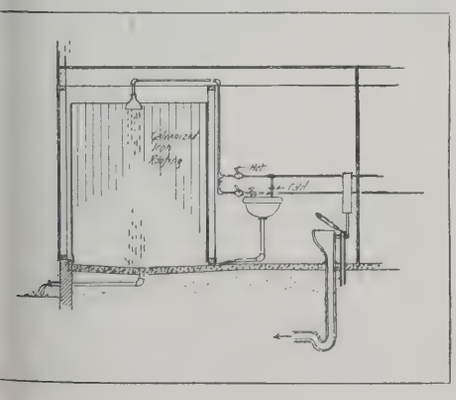
HOT WATER ON TAP

'Now, listen: I simply *love* my cold shower, but most women want warm water,' said Anna. 'What are we going to do about it?'

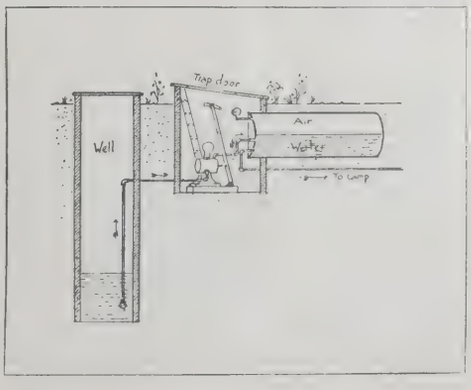
It was something of a problem, certainly! There was no chimney; the cooking was done with an oil stove. Neither gas nor electricity were available. Hence all the usual things—laundry boiler, range water-back, gas or electric heaters, etc.—were out of the question.

Finally, we decided to use a special water heater with three coal-oil burners like a kitchen oil stove. It was really quite satisfactory, and not at all expensive though it doesn't heat quite as fast as coal or gas. We connected this to a 24-gallon range boiler, and have plenty of hot water for shower and kitchen sink.

In theory, there should have been a huge fireplace; but (*continued on page 498*)



The diagram at left shows economical placement of plumbing (shower, toilet, and wash-basin). A pressure-tank, set underground and rigged with a little force pump, makes an inexpensive water-supply system (right). Above is the stable which was successfully converted into a camp-cottage



Offering every comfort and expressing complete conformity to purpose this camp living room is an ideal refuge for the tired business man

This portable, folding chair nicely constructed of leather and bamboo has a certain smartness and is certainly comfortable (reproductions at $14.50)

Substantial and serviceable, this card table folds up in the form of a suitcase into which the chairs fit—the outfit complete ($25) is easy to carry

The dinette is a magic table concealing all the equipment necessary for light cooking. Several sizes in walnut, mahogany or enamel finishes ($39.50)

The modern trend is evidenced in the reed furniture and linen coverings, very smart and suitable for the summer house

Summertime Furnishings and Equipment

Planning for greatest ease with least effort

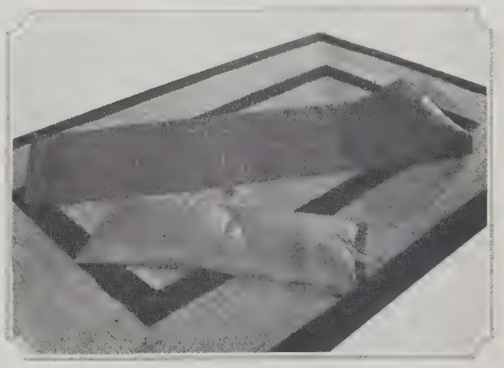
GRACE L. DAGGETT

SINCE the days of Robinson Crusoe and the Swiss Family Robinson, amping has held an irresistible charm for ll lovers of nature. While the imagination ay be vastly stimulated by the memories f these hardy adventurers, in actuality heir trials and tribulations would make ttle appeal were they to be endured for ny length of time. To be free, to leave ehind the formal routine of house, busiess, or profession is the desire that comes o many with the approach of warm days. he outcome of this urge is the many deghtful, informal camps that can be found round the borders of our beautiful lakes r along the coast line of the shore.

In one spot you will see a tent equipped ith every convenience for minimizing abor, and stripped down to the bare ecessities for living. Just beyond will be he cabin or cottage of permanance for he owner of less primitive inclination. t is safe to say that those who choose hese quarters for spending a vacation are ersons seeking relief from care and reponsibility with a view to general recreaon and rest.

No unnecessary adornment should comlicate the problem of living in camp, nd the furnishings should be crude but omfortable, with every commodity for ase and informality that you can supply. Let us first consider the ideal camp livng room which will permit plenty of compromises for those unable, for financial reasons, to attain perfection.

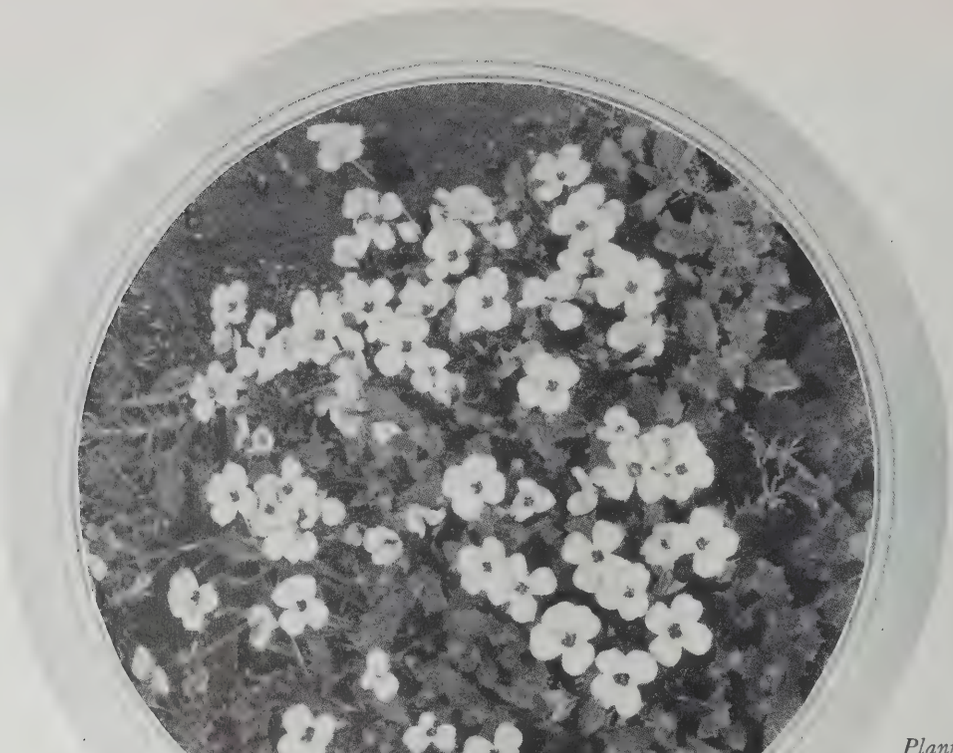
Rough-beamed construction and weather stained woodwork supply the background of neutral wood tones. The large open fireplace of rough natural stone carried to the ceiling is the focal center of interest, and on rainy days or when the first chill of autumn creeps into the air, the fireside will be a popular retreat. The fire equipment, all of iron, requires no polishing or care. Ship lanterns, electrified, suspended from the beamed ceiling, supply the light, supplemented by oil table lamps. As it frequently happens in country regions that the electric power is shut off during a storm, provision must be made for such emergencies and oil lamps are the safeguard.



New comforts for the beach are this folding rug and padded pillow which can be easily carried about *(see description page 508)*

In building, furniture may become part of the architectural construction with excellent effect. The combination of book shelves, cabinet and desk economizes space, and embodies many conveniences. Under the windows, seats are built and cabinets constructed which will do away with the trouble of moving portable furniture. When the season is over, books and accessories may be stored away and in a short interval the camp will be stripped and left for another season.

In the center of the room a large library table is constructed of heavy hickory log supports, with a top of thick ash stock planed down to a smooth finish. At both ends of this table is a settee of logs with removable cushioned seats and backs. Two friendly lamps of wrought iron are placed at either end providing light for each side of the table, and also for the seats at the ends. Several overstuffed chairs covered in brown denim, piped in black, and four dull-finished Windsor chairs of different design are the only additional pieces required to complement the ensemble. Coverings for furniture in the room just described should be of durable coarse materials appropriate to the character of the furnishings. Canvas, denims, cotton *(continued on page 508)*



Plants that prefer to hang down like Purple Wall-cress (Aubretia) will be thankful for having a stone placed against it. Best raised from seed

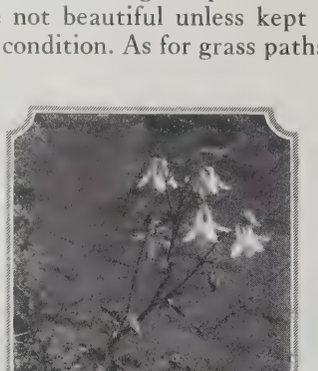
Rock Gardening Without a Rockery

A few stones along the edge of walk or flower border will accommodate a goodly collection

ETHEL A. S. PECKHAM

MUCH talk is heard nowadays about rock-gardening, and the word 'fad' is often brought into the discussion. Always there will be people who do and have certain things because it 'is the thing to do,' but we can discount them so far as gardening is concerned. I imagine America will burst forth into some of the horrors in the line of 'rockeries' that have been perpetrated in other countries where hills have been raised and ranged with lines of sharp teeth, or slabs of rock have been thrown about like the nuts on the top of an iced cake. Of course, we shall have, and do already have, some good rock gardens together with collections of nice plants but we have a fashion of relegating this sort of plant to our friends who own rocks without seeing first if we could make use of the plants ourselves.

In gardens where most of the work is done by the owners, one has to consider a design and material that will conserve time by eliminating work. Long sweeps of shaven lawn, wide grass paths and such-like are not beautiful unless kept in the pink of condition. As for grass paths—the edges should be exquisitely cut in sharp clear lines and kept 'just so' and the paths must be wide or they are impossible. Plants, to look really well, should spread on the margins to join a path and if a mowing-machine is run along with one wheel in the bed it not only makes an unsightly mark, but beheads what are sure to be one's most precious flowers. Well-drained gravel paths are attractive in color and plants delight to seed themselves on the edges, but remember that weeds will grow there just as easily. Even brick must be kept weeded in the crannies—flags also, but bricks and flags are less care than grass and I am in favor of keeping the mowing man away from all the edges of my flower-beds.



An occasional tall plant, like Columbine, near the walk to brush against as you pass, is not out of place

The path that pleases me the most is one slightly sunken and with large cobble stones or even small rocks laid along the sides to hold the soil in the beds. Here is the ideal place to rock-garden without a rockery. By placing extra stones here and

here on the surface of the bed, or rather, itted into it, you can make 'pockets' nd cut off your colony of any particular lant from an encroaching neighbor. A at slab of stone will often come in handy o lay on the surface just back of a slope vhere you have plants that like a well-rained surface with moisture at the roots.

In border rock-gardening one can ractise the same special care in the mak-ng of proper growing conditions for plants s in the large rockery. One naturally elects the plants adapted o the particular exposure n the case and it is quite nnecessary to feel that be-ause your bed is of the sual garden loam you must o without a plant which njoys a very sandy and tony soil. Just make the roper mixture (stir it in a ail if you like) and put it n place of the original soil. By using long slates and hrusting them down into he ground so they do not how on the surface you can eep your special mixture rom being polluted.

Practically all rock-plants ike stony soil and they ertainly delight in a sur-ace of tiny stones. Where ou have easy things such s the common Sedums, do ot plant them as you re-eive them, in a large wad, ut pull all apart, into little ieces. Each tiny part with root will grow. Spread hem about an inch apart, ressing the soil down well nd sprinkle a little sand nd many very small stones ll over the surface between he bits of plant. Soon you vill have a great, healthy atch. These stone chips onserve the moisture and et the babies get a start. Be ure to watch for weeds and emove them until your Sedums have the upper and, after which you need ot worry.

The plants in such a bor-er can be varied very considerably, only e wary not to get too spotty an effect. The ld standby Jenny Stonecrop (Sedum re-lexum), which in Europe is considered too ommon to bother with, is just the thing or sunny places where it seems difficult o coax growth. I use it as a ground-cover or Autumn Crocuses as it is so vigorous he Crocus foliage can lie about on it in pring and do little, if any, harm. When he Crocus flowers push through in au-tumn nothing could make a better back-ground. The White Stonecrop (Sedum album), with darker green leaves and quite pretty white flowers, can be used for the same purpose as can its larger form, gormani. This has fat, coarse, rounded foliage and one can scarcely believe it is a half-brother at all. One path in my garden is bordered with what amounts to small rocks so there is a chance to have some of the plants that prefer to hang down, such as the purple and mauve Aubretias. I would not bother with the common white Rock Cress in a border such as this. It is too rampant; but the new European hybrids (which I raised from seed, in a frame) are very beautiful. I find them a bit difficult to transplant unless it is done quite early in springtime before the sun gets hot, though they do not mind sun when well established. Here also is some Goldentuft, not the mustard-yellow variety, but a pale sort, Lemon Queen, which blends beautifully with the Heavenly Blue Grape Hyacinths or the smaller Muscari polyanthum. Near by nestle white Grape Hyacinths with Pentstemon procumbens, a compact low plant with large lilac flowers, and a Harison's Yellow Rose blooms behind.

Not every plant should be low and smooth or bushy and hanging. Vary the interest by having patches of taller bulbs such as a fine Narcissus, and why not the most valuable one you possess? Let us say, Myteline, a pure white Leedsi, tall and of superb round, flat shape. Or it may be an old friend like Peter Barr, the well-known white trumpet, never so charming as when growing where you can really study him. Or, again a planting of some very late, little Daffodil. Narcissus gracilis would do, lovely, not only for its good, clear yellow, but because it is almost the last of its tribe to bloom and can bring interest by the difference of its narrow strap-like foliage or its clustering flowers. If, after the flowers of these taller bulbs are over, the foliage threatens to fall upon an adjacent plant it is not harmful to bend the badly behaved leaves about into a sort of loose knot as one does with a horse's tail, or they may be doubled and tied with a bit of raffia. The foliage will ripen perfectly and stand up while doing it.

Columbines will seed themselves in the nooks and crannies and prove to you that a tall plant is not out of place here and there to brush against you as you pass by; or the annual Nigella Miss Jekyll; white Eschscholtzias; and low, mauve Alyssum can seed about, coming year after year. Speedwells (Veronicas rupestris and repens) do well, especially the pink form of rupestris, faithful bloomers every year. A good combination planting with the pink veronica would be Elwes' Snowdrop, Narcissus Undine, or one of the Poetaz varieties such as Aspasia, and Lydian Stonecrop—the real one though, with pink, black-anthered flowers, and not the one so often sold for it which is only a variety of Sedum glaucum. If you care to amplify this (*continued on page 496*)

The Creeping Speedwell (Veronica rupestris) is a reliable creeper in blue, pink, or white variety

Coming late in the Daffodil season the Graceful Daffodil (N. gracilis) with fragrant yellow flowers, fading lighter, fittingly bedecks the border rock plant collection

Tinkering About the House

New salves for broken idols of the home—modern chemistry conquers household mishaps

PAUL GLENN HOLT

THE dry air of our homes in winter has shrunken our proud hall paneling, or opened cracks between the boards of our floors.

The cat has pushed our Wedgwood china candlestick off the tea table and smashed it on the floor. Our young son tried out his birthday toy saw on the Winthrop desk, leaving a horrid wound. We are looking for a shoulder upon which to weep. But wait! Have we met the gentlemen who are bringing about the plastic conquest of the grief of the world?

In a hundred laboratories high-salaried chemists are studying each of these daily household disasters, inventing new materials for their repair, new magic potions which enable us to revivify our broken idols with a jackknife and a jiffy.

Let us start at the top of the house, like a painter, and work down, looking for trouble.

WHEN CHIMNEYS CRUMBLE

When mortar has crumbled in the chimney joints, the disintegration may be stopped by 'pointing up' the brick with a mixture of one cupful of hydrated lime, three cupfuls of Portland cement, eight cupfuls of sharp sand, and enough water to make a thick paste. A kitchen knife with a pliable blade is a good tool for applying the mortar to the crumbling edges. It may be pressed into place with a round pencil.

FLASHINGS AND EAVES TROUGHS

The sticky asphalt pastes such as Stormtight are useful in closing slight leakages in flashings and valley tin. Rusted pinholes are easily stopped with these compounds and further rust is checked. The same is true of eaves troughs. Excessive rust should be scraped off before applying the paste.

REPAIRING THE WALLS

In winter, with our heating plants at work, there is a drying and shrinking process going on in our homes regardless of our humidifying efforts. Moisture is drawn from all the interior trim and even from our own skins. Cracks open in the floors, the paneling, the wallboards. Wallpaper may be torn asunder.

What shall be done? Our first impulse is to fill the cracks with any old thing and paint or paper over the wound. But wait! What will happen when the furnace goes out in spring and normal moisture returns, or even abnormal moisture from damp cellars? The finish materials will expand again, not quite to their former place perhaps, but, very evidently, they will demand more space than they occupied in the dry winter.

If we put a non-elastic, rigid-as-iron compound into our winter cracks, it will be crumpled by the reëxpansion of spring. It will fall out, leaving jagged, tooth-like edges.

It is best to fill cracks with plastic materials which are as near the nature and consistency of the surrounding parts as possible, have an equal give and take, no more, no less.

Rutland plaster is a pleasant compound to work with. When water has been added to an amount of the powder which we think we will immediately use, and forms a thick paste, it may be employed in all cracks in plaster walls. It becomes an integral part of the wall or ceiling.

There are several excellent 'plastic paint' preparations on the market which, with the addition of water as directed on the containers, may be painted or troweled over almost any wall and finished in dozens of artistic designs. They may be applied thinly or thickly, may be heavily embossed or lightly smoothed with the palm of the hand, a whisk broom, or a crushed newspaper. Paneled effects, stencils, ordinary oil paints may all be used to produce unlimited original colors and designs.

These new plastic wall finishes are particularly useful in covering badly blemished walls. When wallboards have shrunk and show cracks at each seam, it is important, before using these finishes over them, to cover the cracks and corner defects with three-inch strips of wire mosquito netting. A very slight application of the paint to the wounded surface will keep the netting in place until the final coat seals it in.

Wallpapers should never be applied over cracks. If the wall is plaster, fill the crack with Rutland cement first. If the wall is cardboard, use reinforcing strips as above, except supplement muslin for netting. Wallpaper paste is better than glue in attaching muslin strips. Glue when dry, may become brittle and the paper may drag it off with a snap. For the same reason commercially prepared sizing compounds are better over the whole wall, before papering, than homemade plain glue sizing.

CRACKS IN FLOORS

Most substances for this purpose must be colored as near the floor tone as possible before applying. Paint, applied only to the surface of the filler, may chip off. Floor fillers must have a certain resilience, otherwise expansion will force out anything we may put into the cracks. Modern chemistry has given us 'plastic wood.' Though it comes as a paste, it hardens like wood, may be planed, sandpapered, painted; will hold screws and nails. In all practical intents, it becomes after its quick hardening, an actual wood. Hence it is an ideal crack filler for wooden floors. It should not be colored until the work is done.

OTHER USES OF PLASTIC WOOD

When hard, this new material does not chip, crack, crumble or splinter. It is powerfully adhesive. Broken drawer handles may be permanently held in place with it, the repair being sandpapered, varnished or painted, just like wood. Sometimes a loose drawer knob has no screw thread to tighten it up. This material may be packed around the bolt inside, and, when hardened, the drawer pull is as stout as when new.

It may be used in replacing chipped carvings, broken corners. When hinge screws are too loose in their holes to be tightened by the screw threads, this paste will make new threads. When hammer handles have lost their wedges, it may be crowded in the holes to form a new wedge.

It fills dents, or the line where Bobby's saw cut the Winthrop desk. It tightens knives in loose handles, resets loose tiles in floors and walls, fills gouges in cork linoleum.

The white streak made by scratches on pianos or other dark varnished finishes may be first filled if deep, but in any case a light application of iodine hides the wound.

A Timely Article on Time

Clocks for beauty, gayety, decoration, utility

ELLEN D. WANGNER

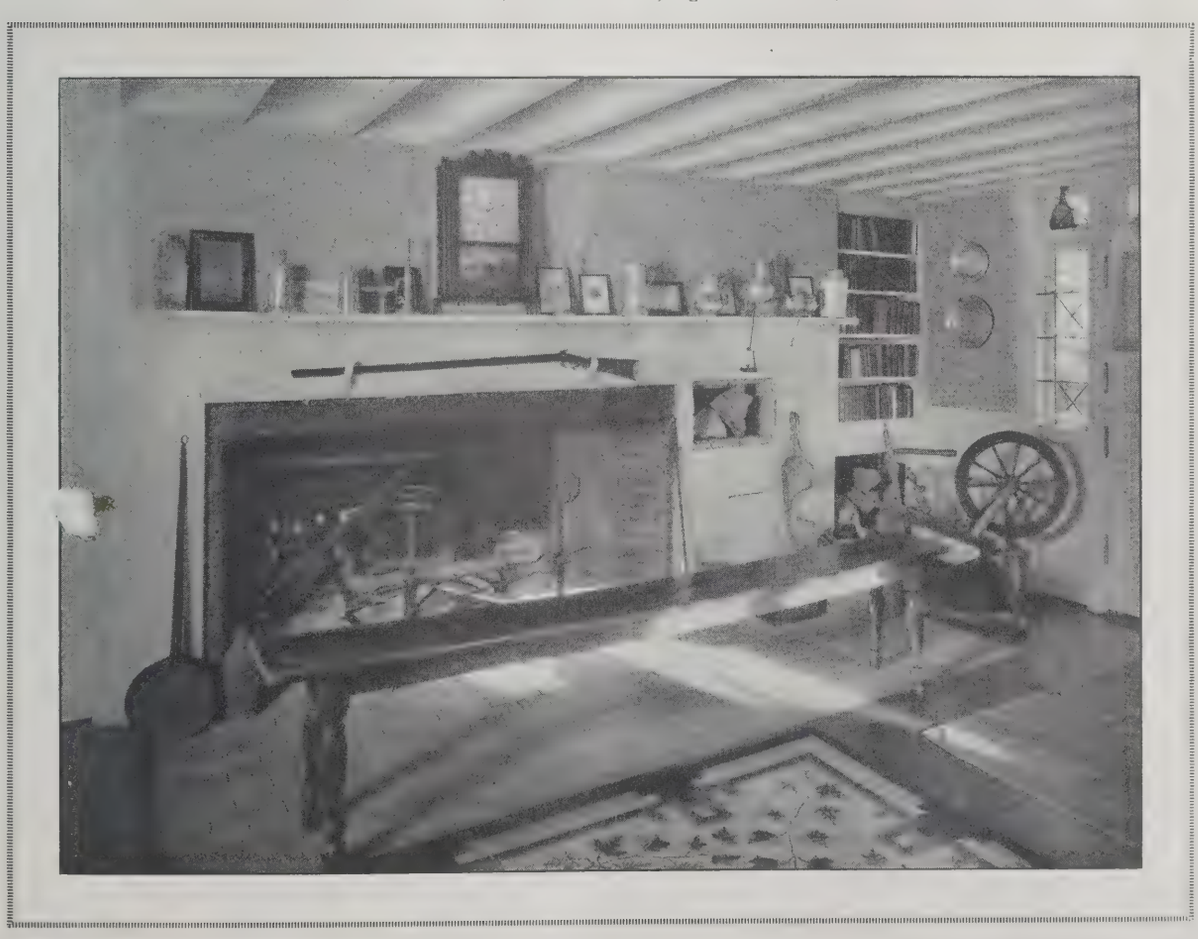
A PERIOD there was, and this not so long ago, when clocks were but the staid, dignified ticker-tapes by which the moments of our lives were solemnly ticked away. To-day they have become the joyous markers of our cheerful, colorful lives. The sober old grandfather clock in the lower hall in his rich though plain coat of rosewood or mahogany must look in amazement at the grandmother clock (oh, yes, there *are* grandmothers in the clock world), with gay pink roses spattered all over her bonnet and even shielding her face, while the wag-o'-the-wall is more waggish than ever in his coat of green or red or yellow enamel with his case sprigged like an 1830 muslin. For color, that cheerful gay note that is bringing such a sense of pleasure of living into all our homes, has at last crept into these faithful companions of our lives and they are ticking away in every color of the rainbow with their cases of the old beloved styles and shapes and materials. If desired they may be had in bronze, or enamel, or leather, or china, so wide is this modern understanding of the decorative value of a clock.

There are clocks for every purpose. Do we need to match any particular style of room, or place in that room? Then is there a clock ready for it, whether desk or boudoir, nursery or living room. Even the sturdy little alarm clock of horrible association is as carefully tested for its especial work as are its costlier companions. Its face is in color to match any kitchen decoration and it may be had with luminous dial so that it gives out its information in the dark, while the alarms will ring once, intermittently, or both. Even the size of these night watchmen of hours has changed and we find these little

Typical alike of the new beauty held in old designs as well as in the new shapes are the clocks above for wall and mantel

In this Early American room, where the fireplace and oven take up nearly the whole wall, the Terry clock adds a note of charm

Photographs by courtesy of Wm. L. Gilbert Clock Co., Seth Thomas Clock Co., Sessions Clock Co., Chelsea Clock Co., Ingersoll Watch Co., Inc.



fellows quite as efficient though only a quarter of the big fellow's size. So much of beauty has crept into our kitchens that not only color has been put into these clocks but they are mounted on low pedestals, a real thing of beauty and that at a cost of less than four dollars! Many new shapes are given to these alarm clocks so that no longer do they suggest their watchdog qualities.

And while we are on the subject of kitchen and alarm clocks, there is a particularly attractive kitchen wall clock that has a white lacquer case with blue, orange or black borders, and still others so lovely that they may fittingly be used in the dining room; these either round or square with white enamel cases on which are all-over designs in blue, some simulating Dutch tiles, others copies of old English china. Still other white enamel clocks are meant for the nursery, their Mother Goose pictures in four colors.

In this matter of clock cases it does not seem as though there could have been any improvement over the old designs made when poems in rosewood and mahogany were wrought by Chippendale and the other master woodworkers. And it is satisfying to note that these old cases are still being produced for us to-day and with them new styles fitted to our modern lives, with lovely color in both the old and the new. Among these new clocks there are delightful miniature reproductions of the old. One in mahogany that is only 5 inches high and yet is a perfect little tambour clock for desk, mantel, or bookcase.

For the dressing table we have clocks as lovely in color as a butterfly's wings. In fact they seem to have copied their evanescent beauty in silver, with dials and borders in brilliant blue enamel, and who would not like a clock of ivory with pink roses on its face? While for the library, smoking room or man's desk are clocks in bronze, thin bronze frames that hold the clocks as on an easel, sturdy bronze frames that express dignity, frames of silver, of wood, frames of every shape and size, large or small, square, octagonal, oval, rectangular.

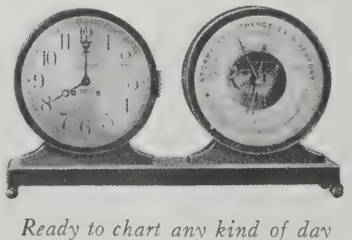
For library or desk, too, there are clocks in tooled leather, gay little clocks in red with black arabesques to fit the Italian or Spanish room, demure little clocks in Gothic style in brown leather with gold tooling, clocks that seem just the right note no matter where they are used. Even man's hobbies have not been overlooked, and for him who loves the sea, there is a ship's bell clock in a frame like the wheel of a ship, either plain, mounted on a mahogany base or set in polished brass, singly or with a companion wheel beside it in which is a reliable barometer so that one may accurately chart his days. This

The decorative value of a well-chosen clock is shown above where the stately mahogany timepiece balances so perfectly the over-mantel portrait

brass is heavily lacquered so that it will retain its bright color.

The banjo clock has always been the festive member of the clock family, but even this timepiece has broken out in new colors—all-over blue, dull red, green, and brown cases, some with floral motifs, others with Colonial or sea pictures in their panels. And these clocks have names that charm: Yorktown, Courtier, Minuet, and come in the old size and also in diminutive designs that are most alluring when hung over milady's desk.

No matter what size, type or make of clock one has, however, it must have care—and is there any piece of mechanism that gets so little? Hands are moved backward or forward at will, chimes are struck to catch up when clocks have been left unwound, and yet the rules for care of a clock are *so* simple! The accuracy of a clock depends on having its pendulum swing true. This can only occur if the clock be set absolutely level. Rule I: Humans can go on ticking at any angle, but a clock must be on the level. Rule II: In moving a cabinet clock first remove the pendulum ball or bob and do not put it back until clock is in place. Rule III: A



Ready to chart any kind of day or hour is this clock that is both timepiece and barometer

clock should be wound regularly at the same time every day or week. Rule IV: In setting a clock never move the hour hand, move the minute hand only! Rule V: Keep clocks dry. Avoid dampness. Kitchen clocks do best if kept behind the glass doors of a cupboard. Rule VI: A clock should be cleaned and oiled once a year surely.

In buying a clock, how can one tell if the clock be worth the having? There is one sure rule—the name of its maker. There are in America names of clock makers—many of them that have come down from clock-making father to clock-making son from Colonial days, all men whose name on clocks are like the sterling mark on silver.

We have not mentioned specifically all the shapes and makes of clocks—they are so well known that it would be repetition but we do wish to mention their chimes—those low sweet voices of time.

'Turn again Whittington, Lord Mayor of London' ring the stirring Whittington chimes; while the Normandy chimes call to us of Normandy's blue hills—all rendered in the grandfather clocks we love, on tubular bells so that the chimes come to us with a gentle resonance that holds a poignant melody. Best of all, these chimes can be silenced at will, an added comfort in time of illness.

Typical of modern efficiency are the electrically wound clocks that fortunately are housed in those cases that have stood the test of time, Grandfather, Salem, Willard clocks, banjo clocks, as well as wall clocks for the lovely room, are taken care of by this servant of our modern homes so that a timepiece so wound is guaranteed to within 30 seconds a week.

For some time decorators banished the clock except from the Early American and Colonial room. To us who welcome the return of the clock it has always seemed as if this banishment were due to a lack of understanding and appreciation, first of the friendliness of a clock, and, secondly of its necessity in every room. The names Seth Thomas, Terry, Wood, Willard, Ives, surely they have stood for such beauty of design that nothing made by them could strike a jarring note. And now they are being recognized and the clock has come back and come to stay, we feel for it appears in its modern dress suited to every taste and purpose. Variety of shape, style, material and lastly color have been brought to these timepieces so that they have taken their place among our most decorative and desirable objets d'art.

Thus is utility in these modern days made to walk hand in hand with beauty through our rooms, bringing back to us something that is more than a mere household furnishing for rather do we count a clock as the friendly companion of our days.

Although every article in the living room above is of modernistic design, it is definitely livable. (Photographs by courtesy of Lord & Taylor)

Charming indeed is this bedroom in silver, white and grey, the bed of pear wood with pewter inlay. The bed cabinet also holds the telephone

Heirlooms of To-morrow—Triumphant Modernism

The lover of antiques is captured by the current tide in modes of decoration

ESTHER SINGLETON

NO MATTER what we may think of modern decorative art—whether we ke it or whether we do not—the important act remains that a new period in decoration as arrived. Everyone who is interested in he adornment of the home is forced to ake cognizance of this recent movement.

How long this 'new period' may last, who will be rash enough to say? Turn back your minds a hundred and twenty-five years to the designers of the Directoire and Empire styles, who rejected everything in form, line, color, and general expression that had been in vogue before the French Revolution as they labored to meet the demands of a new society—a society as new and as iconoclastic as that of our own time. Percier and Fontaine, Jacob Desmalter and other sponsors and designers of the 'new art' of the early Nineteenth Century were

precisely as revolutionary as their successors of to-day. Originally termed the 'style antique,' their contribution, after several years, crystallized into the 'style Empire' when Napoleon became Emperor in 1804; and its influence has not entirely died out even to-day. Will the furniture, ceramics, lacquer, silver and other productions of this present 'modernistic' trend, 'designed to meet the present and to forestall the requirements of the future' have as long a life?

France has originated all the great periods of decorative art ever since Colbert, Louis XIV's minister of finance, put France on the map as the great producer of artistic industries of all kinds and founded the Manufacture des Gobelins, where many famous artists and artisans worked under the great painter and designer, Bérain. The Adam brothers, Chippendale and Sheraton went to the French for their ideas; and everybody knows how the Germans out-rococoed the French rococo of Louis XV. All critics agree that France has always been the nation most capable of interpreting the spirit of each age into form, line, and color. During the last ten years the successors of Boulle, Bérain, Lepautre, LeBrun, Créssent, Meissonier, Caffieri, Œben, LaJoüe, Riesener, Roentgen, Ranson, Delafosse, Delalonde, Percier and Fontaine, Desmalter and others have applied themselves to a definitive study of the spirit of the times and have succeeded in gathering all the new and modern ideas into a style. And, as they have perfected the designs, they have utilized the exotic woods and ivory of their Indo-China and their West African Colonies, searched for radiant colors, created new fabrics, originated new—and sometimes fantastic—lighting; finally, they have assembled all these new contributions with the grace and taste that belong peculiarly to France. It was a happy inspiration to bring to New York the creations of the leading artist-designers of Paris for an 'Exposition of Modern French Decorative Art,' the purpose being to determine the reaction of the American public toward modern art in all its developments and to ascertain whether there is sufficient interest to justify the production of such merchandise in our country. As the stream of visitors averaged 20,000 persons a day there is no question of the public interest.

In this collection we find examples of two schools: one, adapting the Classical to modern needs; the other, salvaging the best from Cubism, Impressionism, and many wild Twentieth Century expressions and using these with modifications to meet present-day requirements. Thus we find memories of the Empire in the creations of Ruhlemann and, on the other hand, distinct shadows of Cubism in the designs of Chareau.

Turning now to individual pieces which may become the heirlooms of to-morrow, we find many pieces of furniture: chairs with long and curious lines, semi-classical chairs of lignum vitæ upholstered in Ruhlemann's favorite deep gray mohair and a huge sideboard of mahogany with inlaid ivory ornamentation. The perfection of cabinet-making is shown in all of Ruhlemann's compositions.

Pierre Chareau, who is Cubistic, makes great use of wrought iron in conjunction with rare and exotic woods. Chareau has a desk of rosewood that stands on three legs of wrought iron and crossover; a hanging couch-bed swung from the ceiling with frame and supports of wrought iron, adjustable to varying heights; an unusual dressing table and chest of sycamore.

Sue et Mare, designing for the modern woman, have a superb Directoire bed, an enormous mirror and an armchair with semi-classical lines made of ebony and upholstered in pale pink satin. The coverings of the bed, done by Mme. Lanvin are of pale pink satin embroidered in silve and the four pillows are curious in form and are placed in studied negligence. Sue et Mare also have a coffee table ten inche high of red lacquer, and two French wal nut armchairs, long and low, with seat upholstered in green leather.

Francis Jourdin has created a bed-tabl which becomes a wall-desk when required and which has wheels instead of feet, s that it may travel from the wall to th bed; revolving cabinets; large chairs an several pieces of double usefulness. Ver Choukhaeff has pieces for boudoir wit all the modern perfume and cosmeti containers, powder tables and low chairs D. I. M. (the firm name of René Jouber and Philippe Petit) has sent a commode bookcase and great armchair, all designe for a man's smoking room.

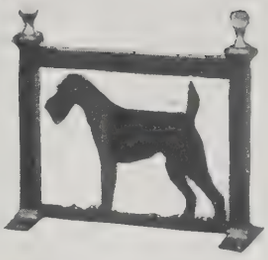
Mybor contributes little chairs wit hand-woven seats and novel rugs; an Jean Dunand, Vice President of th Society of Artist Decorators in Paris, ha sent many lacquered screens, vases, table and other furnishings. Particularly note worthy are several pieces made of 'egg shell lacquer,' which originated in Chin in the days of Confucius. While in Chin Dunand became interested in this 'egg shell lacquer' and trie to gain the secret of it manufacture. The Chi nese at first refused t tell but finally yielded

Many objects in glass ware, silver and ceramic are also on view. Th glass, novel in form, i technique and decora tion, comes from th ateliers of René Lalique Henri Simmon, Mauric Marinot, Marcel, Goup and François Decorch ment. Among the ceram ics, many of which ar by Decoeur, Lenoble Mayodon, Dejean Pavie, Laguiémié & Co., and Sue et Mare we find vases, bowls, an delightful statuettes o birds and animal cleverly modelled an full of action. The elim ination of detail, bu highly sophisticate modelling of many o these cats, cockatoos pigeons, badgers and hens (and we ma add persons) makes us think of Edwar Lear's delicious illustrations in his Non sense Books, which could never have bee made had not the artist been a maste of line and form.

The loveliness of old Chinese lacquer has been caught in these modern pieces made for comfort and the whole has been grouped with very definite regard for color harmony

Fire-set, lantern, and little table or bedside lamp, all of sturdy and suitable design. Photographs by courtesy of Todhunter, Inc.

Hand-wrought fixture creating the effect of candlelight



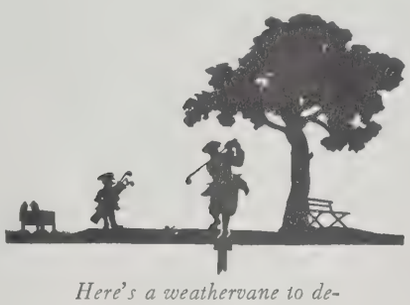
A wrought-iron footscraper diverting on any doorstep

Metals that Add a Finishing Touch

DUDLEY H. CLULOW

IN OUTFITTING the summer camp, cabin, or simple country home, there is as a rule not much thought given to the selection of the hardware used to close its outer doors and windows, to fasten its inner cabinets and closets. And yet this simple matter of well-chosen hinges and knobs and fasteners can do much to bring a fine sense of sturdy construction and beauty to even the simplest vacation home. Strap hinges, weathervanes, foot scrapers, and latches of hand-wrought iron are not out of place in the cabin at shore or mountain resort since a little care will render them practically rustproof and even the amateur can finish them up in this way. At almost any paint or hardware shop one can purchase iron oxide—that red paint-like substance one sees used on the metal-work of all new buildings of steel construction. Cover the iron hinges and other fittings with this, and when dry, paint with flat black paint, using two coats. This will make it rustproof and weatherproof so that one may make use of these attractive, decorative latches and hinges, secure in the thought that not even the salt sea air can corrode.

Whatever the size or style of the house, the use of hand-forged hardware adds so materially to its individuality and distinctive appearance as to make it an investment paying big dividends in both service and satisfaction. To look its best a building should blend with its surroundings, and for this reason the Colonial and early English types are, generally speaking, the best for the small house or cottage. There is no denying the appealing charm to most of us, of the old houses on Cape Cod. For such, of course, no other kind of hardware but the hand-forged should be considered. Strap hinges with the arrow-head tips are excellent for the exterior doors, while on interior doors, if the trim is flush, either the H or H L types can be used. On batten doors, though, the strap hinge is the more appropriate. In modern construction hand-wrought hinge plates are sometimes used in conjunction with a machine-made butt, giving the appearance of being all one piece, and from a practical standpoint this practice has its advantages.



Here's a weathervane to delight the heart of any golfer

Hand-fashioned hardware on a Dutch door and of a character sufficiently simple for the small house or summertime cottage

Thumb latches are both practical and true to the period and for the outside doors they can be used to operate a cylinder lock, a wrought-iron cover concealing the bronze face of the cylinder. On paneled doors, black iron or brass box locks are attractive, using brass knobs with either one. Cupboards may be fastened with a simple latch bar with end turned into a rat-tail curl to form the finger lift or on small closets a throw-over latch can be used. For French doors or casement windows lever handles are best. The most used form of shutter holdback is (*continued on page 508*)

Iris asks for full sunshine, and no company of competing plants to shade the creeping stems. (Rhein Nixe, white standards, with falls pansy violet bordered blue white, is one of the most popular)

Tall Bearded Iris—A Flower for the Busy Gardener

ROBERT WAYMAN

OFTEN I have been asked how I came to take up gardening as a hobby, and why Iris in particular? The former question is another story, too long to enter into now, but the latter is easily answered. Iris is the busy man's flower and the busy woman's flower. The Iris will, with less care, produce more bloom and a greater range of color, fragrance, and variety than any flower I know of. They do not need to be dug up and stored over winter and replanted in the spring. They are as hardy as grass, as beautiful as an Orchid, and many of them as fragrant as the Rose.

Robert Wayman's collection is the mecca of connoisseurs each year

They are most accommodating plants for they can be dug up at almost any season of the year, the very best time being in midsummer, when other plants cannot be moved at all. They multiply rapidly, produce a riot of striking colors, and the foliage as well as the flowers is ornamental. What more could one want who is looking for a hobby that satisfies and never flags?

While the general belief is that the Iris season is short, it has in fact one of the longest flowering seasons of all flowers. Not that any single type blooms for a long period, but there are so many types of Iris, from the little setosa, which blooms all winter in a protected cold-frame, and the reticulata, a violet scented royal-purple bulbous Iris that blooms just ahead of the Crocus, followed by the Dwarfs, Intermediates, Tall Bearded, Siberians, and Japanese, together with various species and varieties, so that the Iris season is prolonged into August. But as these various types require different kinds of treatment we are considering now only the Pogoniris, or Bearded Iris, which includes the Dwarfs, the Intermediates, and the June-flowering Tall Bearded.

Any good garden soil will answer for Bearded Iris. In fact I sometimes think they do better if the soil is not too rich. In 1925 I had a particularly handsome bed of Ambassadeur Iris. It bloomed most profusely and was much admired by all who saw it. One eminent Iris authority who visited my grounds that season when Iris were in bloom asked me how I had produced such wonderful results. I was afraid he might think I was 'holding out' on him when I told him that the soil in that bed was the most worthless soil in the world, taken from the bottom of a twenty foot hole. It happened to have been dumped there just when the plants arrived from France the previous year, and as there was no other place to plant them at the time, this good-for-nothing pile of dirt was rounded into the form of a raised bed and the plants set out there temporarily. They did so well that they never were moved until last year when

they had multiplied to such an extent that they needed dividing. The next spring after planting they were given a light dressing of bonemeal—nothing more.

Bonemeal is the only fertilizer that should be used for Bearded Iris. A dressing of lime, or pulverized limestone, helps to keep the soil sweet and is beneficial. A mixture of lime or limestone and bonemeal, about 50 per cent. of each, turned into the soil about twice a year is good treatment, the amount to be used will depend upon the condition of the soil, but generally enough to just cover the ground is sufficient. If turned into the top soil the rains will carry the ingredients down where they belong. If the soil is allowed to get sour the plants are likely to rot, as Bearded Iris do not like acid soil.

Full sun is preferable and good drainage is essential. If full sun is not possible, then they should be planted where they may have sun for at least half of the day. In very hot climates it is no doubt preferable to have the plants shaded for part of the day. Do not plant where water gathers. Good drainage can be provided and the health of the plants assured by having the surface of the beds rounded so that the plants are on a raised bed. This allows the surplus moisture to run away.

Irises are usually planted entirely too deep. Deep planting is generally fatal to Bearded Iris. The rhizome, or fleshy rootstock should not be covered, but the top of it should be just level with the surrounding soil and always exposed to the sun. The fibrous roots should be spread out and the earth pressed firmly around the rhizome, but not covering it. Did you ever see a man buried in the sand with nothing showing but the top of his bald head? Well neither have I but this simile may enable you to remember how an Iris should be planted, as it is most important. The rhizome should rest firmly *in* the earth, not *under* it, nor on top of it as is sometimes recommended. For, as water is essential to a duck's happiness, so is the warmth of the sun's rays upon the rhizome conducive to health and vigor in a Bearded Iris. Therefore, do not plant them under trees or shrubs, or allow annuals so close as to shade the rhizomes. I know some folks who have visited my gardens will say that in this respect I do not practice exactly what I preach; but then one who has a watchful eye and a fascination for his hobby may take liberties; besides which I will admit that trees bordering Iris plantings, or placed so that their lengthening shadows will fall on the Iris, have some advantages provided the plants are not set under the trees and provided they get the necessary amount of sun.

A. Williamson is f the finest American ductions. Standards anula violet, falls ight royal purple

Ambassadeur, the most popular of all Iris—stately, very hardy and richly colored bronze bicolor with reddish purple falls

The distance apart depends, of course upon the amount of space available. If planted eighteen inches apart they will quickly fill up the intervening space; but perhaps twelve to fifteen inches is the best distance in the average garden. They can, of course, be planted closer than this, even six inches apart, but earlier replanting then becomes necessary, as they will otherwise quickly become crowded.

Kashmir White, about the best of its color for sturdy growth and construction

If planted in such a way that the rain has a tendency to cover the rhizomes by washing the earth over them, it is well to remove this. I have found that a strong force of water from a garden hose, applied against the base and back of the plant, will do the trick. I am sure some of my neighbors think it strange, after a deluge of rain, to see me out in the garden with the hose, but at such a time, when the ground is already saturated, a little more water does no harm, and that is the best time to do it. Excessive moisture, by the way, is undesirable. Iris will stand a long drought when once established, but many varieties dislike excessive moisture.

Plants received from Iris growers will usually have the leaves shortened to five or six inches in length. This is necessary when transplanting. These shortened leaves are likely to wither and die to be replaced by new foliage. The old leaves should be carefully removed as fast as they wither sufficiently so that they will 'peel' away from the base of the rhizome by a slight side-wise pull. A little practice will perhaps demonstrate what I mean better than I can explain it, for experience really is the best teacher after one is given the hint. Something must be left to the imagination and ingenuity of the reader in all of these things. In removing dead or withered leaves, always use both hands, one to hold the rhizome firmly, so that the roots will not be disturbed. Removing the dead and withered leaves helps to keep the rhizomes clean, prevents root rot, avoids harboring injurious insect pests and in older clumps allows the air to circulate and the sun to get at the plants. In fact it is well to go over established clumps as often as possible after midsummer and occasionally remove all withered leaves and trash and dirt from around the rhizome. The roots should be shortened before planting and all dead roots removed.

Iris are properly packed for shipment without any moist packing. In fact they are better if allowed to dry in the sun before packing for shipment and then packed in dry excelsior, as moisture in the package is very likely to cause the plants to rot, especially if closed up for long. When a shipment has traveled a long distance the leaves are likely to be dry, but this does no harm. Merely remove the dried leaves carefully before planting, always removing the entire leaf. It will be found that the leaf will 'peel away' from the rhizome like an orange or banana peel, without injury to the rhizome. Plants received from abroad are often received with all signs of life extinct, with all the leaves and roots dead, and more like a dormant bulb, but if not planted too late in the fall they will begin immediately to form new leaves and new roots. Usually they take at least a year longer than domestic plants to become established. Only commercial growers, or those having noted collections may import Iris under special Government permit.

Bearded Iris may be transplanted any time, from early spring until the ground freezes. They can even be transplanted successfully during blooming season. But the best time to transplant them for most satisfactory results is after they are through flowering. July and August are the best months.

This gives the plants ample time to establish a good root system and to get a 'grip' on the soil before cold weather sets in, so that they will not be heaved out of the ground during the first winter in their new location. Spring is probably the poorest time to transplant them. Some varieties do not seem to do at all *(continued on page 516)*

Photograph by Mattie Edwards Hewitt

It has long been the custom in gardens of the Mediterranean region to introduce color by means of tilework, a custom now happily obtaining in our own country. Here the seat with tiled insets enriches the general mood of gayety; Mrs. George W. Elkins' garden at Elkins Park, Pa.

The Decorative Use of Tile Outdoors

That desirable 'something different' in the way of garden gaiety

HAMMOND SADLER

THE development of flower gardens has created much competition among garden lovers and there seems to be a tremendous desire for something new, something that is different from our neighbor's garden. That 'something different' is not always found in a greenhouse or nursery. Often a fine piece of statuary, a handsome vase, or interesting garden furniture will satisfy the desire for something of decorative value.

Colored tiles—and there are many beautiful varieties to choose from, both imported and of American manufacture— offer us a wide range of possibilities for 'something different' in almost any type of garden. The best opportunity occurs, however, in the gardens and patios related to houses of the Mediterranean type of architecture, also Mexican and the early Californian Colonial.

From Spain we get most of our inspirations for the use of decorative tile. There they were used freely in patios and in the porches which were closely related. This taste was acquired from the Moors who used the patio as a cool shaded retreat. It was as a rule filled with palms, small trees, some shrubs, and quantities of potted plants. Because of the shaded conditions, very few, if any, flowering plants were used, as they obtained color by the careful use of tile; not as a contrasting note of color, but in a thoughtful, blending manner. Tiles were used in pools, seats, sundials, and in the porches, wainscoting, and sometimes in a restricted way on the floor.

Pools in our gardens, whether of formal or informal design, can be made interesting by lining the inside with colored tiles. The color depends largely on the design of the pool and where it is placed in the design of the garden or patio. It may be all one color or a combination of colors. A bird bath set flush with the ground, when lined with tiles broken into small pieces, makes a very colorful note; and here again they can be of one color or a combination of colors.

In gardens or patios of Spanish influence, the curbing of pools offers an excellent opportunity for the use of tiles in many ways. There are so many different forms of pools used in Spanish patios, and the type and size of the tile used depend mostly on its location and importance in the general design of the garden. The imported tiles in lovely designs and colors may be used for the curb, while the inside is invariably better if lined with plain color. The imported tile needs to be used with a great deal of care where the design of the house and patio is more of the farmhouse type—here the handmade and hand-colored tiles from Mexico fit suitably into the simplicity of the scheme. The colors and designs of these, with just sufficient crudeness, give a very desirable note of character.

Tile has been used very effectively in the courtyard fountain of this California home. Mr. Marion Thompson is the owner; Wallace E. Neff, Architect

Wall fountains, like pools, are varied in style and size, and the use of tile with these, too, depends on their location and the importance in the picture. A wall fountain of the large panel type, at the end of a vista or walk, may be made up of tiles of one design, framed in with one or more borders of different colored tiles. A central feature might spill water into a bowl of some special design, from which it might fall into a small pool set flush with the ground.

Care should be taken in using tile not to make a discordant note of color, but to design the feature to be tiled so that it blends in with the general scheme and color design of the garden or the patio.

Benches and seats are lovely when designed entirely or in part with tile; if of the former type, they look best when backed up with heavy planting or recessed in an evergreen hedge.

Steps leading from different levels in a patio or going to an upper floor from the patio can be made very delightful by making the risers of tiles and using unglazed tile for the tread and nosing. Here we have an opportunity of using a different design and color on each, but the color in all the risers should, as a whole, form a pleasing composition of color.

The Californian mission tile, red in color, offers a wonderful medium for paths and the floors of porches, and with age blends in attractively with colored tile used in combination.

In this Boxwood garden wall tiles lend a touch of color; Florence Yoch and Lucile Council, Landscape Architects

Heating Your Home With Gas

Comfort, ease and efficiency accompany this newest development in fuels for domestic use

P. E. FANSLER

Associate Editor, The Heating and Ventilating Magazine

GAS—the fuel of the future', is the slogan coined by enthusiastic advocates of house heating, and there are many reasons why the realization may not be far in advance of the dream.

The American public is rapidly being converted to the doctrine of 'automatic heating comfort,' by which is meant the production of a definite desirable temperature in the home without thought or effort on the part of the home-owner or his family. This, in the present state of the art, assumes the use of fluid fuel: electricity, 'street steam,' gas, or oil.

It is but natural that the more desirable fuels are the more costly. Electricity is available for house heating only in a few favored areas where water-power energy can be sold on a competitive basis because it would be wasted if not sold. The use of steam, piped into the home from a boiler plant, located perhaps a mile away, also is limited to densely populated sections in a few cities. Using street steam, the home-owner has no boiler; the main in the street is connected to his steam-heating system, and the water into which the steam condenses in giving up its heat flows through a simple meter and is discharged to the sewer. Steam is paid for exactly as gas is paid for—after it has been used. The use of oil for domestic heating has been discussed in these pages. Let us see how nearly the slogan of the gas interests fits into the picture.

A little six-room New England bungalow which is successfully heated by gas (see below)

This diminutive gas-fired boiler, only about a foot square, keeps the house shown above comfortable

DIFFERENT TYPES OF HEATER

Gas, for home heating, can be used in several ways. In the far West, along the Pacific coast, where gas is a popular fuel, so-called 'space heaters' are found in large numbers. These are small units, usually connected to the gas supply with flexible connections, making them semi-portable. As a general practice, they are not connected to flues or chimneys. Two or three of these heaters may be used on the ground floor, and if there is a second floor which is not sufficiently heated by the natural upward movement of heat from the ground floor, additional units can be installed.

There are two major objections to space heaters. In the first place, strange as it may seem, when gas is burned water is produced. This may seem paradoxical, but, in a home where all heating is done with space heaters enough water vapor may be formed to cause damage to furniture, hangings and wallpaper. Another objection to this form of heating is the fact that carbon dioxide is generated and, in case anything should happen to nullify the usual high degree of combustion efficiency, the deadly carbon monoxide is produced.

Both of these objections disappear where gas-fired boilers or furnaces are used for what our English cousins are pleased to call 'central heating' plants. These heating plants may be grouped under two headings: gas-fired boilers or furnaces designed specifically for gas fuel in which coal or oil cannot be used; and what are called 'conversion jobs,' where gas burners are adapted to existing boilers or furnaces in which coal has been burned.

A NEW INSTALLATION

Gas-fired boilers represent about the last word in heating plant efficiency; such an installation can show an efficiency of 75 per cent. or more through the entire heating season, whereas the efficiency of a coal-burning plant probably would be little more than half of that figure. This high degree of fuel utilization is brought about by the design of the boiler or furnace. Usually the gas-fired heating plant is built up in sections, the combustion chamber being rectangular, rather than round, as in the case of so many small coal-fired boilers. The gas burner that is fitted to these boilers is somewhat similar to that in the oven of a gas range, producing hundreds of individual blue flames, each three-quarters of an inch high when the flame is low, and perhaps four inches high when a maximum fire is burning. These flames are non-luminous, and therefore emit very little radiant heat. The heat in the gas is almost entirely converted into hot carbon dioxide and steam. These hot gases are forced to travel through passages much smaller than those in coal-fired boilers, and very tortuous, with a 'scrubbing' action along many surfaces of iron or other metal. This metal is thin, and is 'water-backed'; that is, the water in the boiler is on the other side from the gases. Because the water is colder than the gases, there is a very rapid transfer of heat from gas to water, and an essential of a high-efficiency boiler is to have enough of this surface so that the temperature of the gases is reduced, when the flue from the boiler is reached, to very little above the temperature of the steam or water that is being (*continued on page 499*

Instead of the usual dining table, the gate-leg, with drop leaves, is used in this pleasant dining room, which may become a sitting room when meals are not being served

Small Tables for Use and Beauty

Such 'occasional' pieces bestow personality upon a room

ESTELLE H. RIES

EVER since primitive man first laid a slab upon two boulders at dinner time, tables have been interwoven with his innumerable activities. They are perhaps the most universal of utilities, for every nation in every period of its history has required them and has been represented in tabledom by its ablest craftsmen.

There is little room in the limited quarters of the modern dwelling for things that are purely decorative if they be not useful too. In the wide range of modern reproductions and new interpretations in tablecraft, both elements are combined.

The charm of home depends largely upon the occasional pieces that may be now and then introduced into its various rooms.

The living room or library is usually the better for a reading table. As it is about this that the family may gather, it is one of the most conspicuous pieces in the room, and must be chosen with care. Its style should emphasize the room's decorative note; its size should be chosen with reference to the size of the room so that it neither overbalances nor appears diminutive. The long, narrow table, known as a davenport table and placed behind a davenport if there is one, is very acceptable for this purpose. It may also be placed against a bare wall, but rarely alone in the center of a room where it is apt to cut the vista and be in the way. Another arrangement for such a table is at right angles with the main bookcase.

In planning a livable, charming room, the things that are needed should undoubtedly be grouped within the range of vision and the reach of the hand. Any easy chair assumes added ease by the placing of a small table beside it. This may be quite tiny, perhaps just enough of a table to hold matchbox and ash-receiver. Shelves and bookcases hold papers and books, but they decidedly lack the convenience of a small handy table that will hold a friendly lamp or book just where you've only to reach for it. Little end tables give you the luxury of settling down for the evening and staying settled, and their use is definitely established as one of the comforts of home.

Console tables have wide utility in furnishing and are especially valuable decoratively when placed at the wide wall of a room with a mirror above to give spaciousness and a better proportion to the interior. From this viewpoint it is

For the bedroom a very practical little wall table holds books, flowers, and sewing box or basket

Of all rooms in the house the living room most needs a table for around it the family gathers for reading and conversation

an almost indispensable feature of the narrow hall where it presents an aspect of dignity and beauty. Console tables may be had in tall narrow or broad cabinet designs and should be selected to accord with the proportion of the space they are to fill. If there is room enough, the cabinet consoles with paneled doors that give one storage space inside, serve a doubly useful purpose. Whether one of the broad Italian cabinet type be selected, or a mahogany reproduction of Sheraton with delicately fluted, tapering legs, or any of the many other styles, must depend upon the character of the room. The mirror which is placed above it must also be consistent; usually, console tables are sold in conjunction with a suitable mirror, but a fine picture or tapestry may be used instead.

Among the earliest tables found in the United States is the gateleg. The style belongs to the Jacobean and was quite the fashionable thing at that time. Modern gatelegs are constantly growing in popularity, due to their amiable flexibility. For tea and luncheon and dinner, in breakfast room, on sunporch, or tucked away in the library, it is available when you need it, out of the way when you don't. There are, of course, many attractive modifications of the original gateleg, tables of drop-leaf or fold-over types, but whose legs are stationary, acceptable for places where the Jacobean does not go.

Nests of tables are always useful for games or tea, and are kept compactly when not in actual service. In the Georgian drawing rooms of London nobility, the clever little tilt-top tables of the great Chippendale were considered very smart indeed, and they are quite as choice in the modern home. Their historic precedent makes them interesting. Among the handsomest of early types were the 'pie-crust' tables which appeared in England about 1750.

Coffee tables in period designs are delightful aids to the hostess, and the serving cart table on wheels is well recognized as a saver of effort and time. In the servantless house it is quite a necessity at mealtime, for use upon the porch, or in the living room for an afternoon snack. They come with removable glass tray which is easily kept clean, a shelf below for extra plates, a drawer for silver, and extension drop leaves.

Attractive little tables are available

An attractive little table for flowers is most appropriate in a secluded corner of the hall

for the telephone and may be placed i living rooms, halls, and elsewhere. Man of these have a little stool that slide beneath them, completely out of the wa when not in use. The efficient telephon table has a little shelf to hold directories It will in most households be found desir able to have a memorandum pad an pencil for messages. These come in simpl leather bindings or cases of good colo that add their note of interest to th general color scheme.

Tables may be had in many material more daring than mahogany, walnut maple and the like. There are at presen some charming effects obtainable in re and green lacquer for small book trough or end tables, quite delightful if thei color does not conflict with other furnish ings. Wicker is quite the thing for porc or sunroom, while iron with tile is popular combination for the garden or th little Southern and Western homes Spanish flavor. There are also ebony an teakwood with onyx, and for homes on larger scale, inlays of mosaic are some times liked. Marble slabs on gilded iro bases are also seen. Then there are als the many simple little tables that may b painted by the home-maker herself an serve admirably when their color harmon izes with the companion pieces.

The room will of course suffer if it i cluttered up with too many tables. Thi effect is often had when the tables ar strung along by themselves and no grouped with other pieces. It is only th emergency nest tables, the console wit its pottery or flowers, or the 'occasiona tip table that may be properly so isolate in the scheme of the room, and sinc these are usually kept close to a wal they are seldom guilty of cluttering

The range of texture is what really gives interest to a mixture of plants in the garden. The evergreens, the Roses, the grass, the Irises, even the brick of the house each contributes its part

Texture in Garden Planting

ARTHUR HAWTHORNE CARHART

TO DISREGARD texture in landscape design is as absurd as to plan a dress suit made of burlap, an evening gown made of Scotch tweed, or a pair of evening gloves made entirely of rubber.

While texture is a minor element in garden design, it nevertheless plays a part in the enjoyment of a garden. It is an element of design almost entirely neglected by those who plan gardens, this fault even being present to some extent among professional designers.

The consideration of texture really has direct relationship to the scale of a garden. There is another phase of texture that is independent of the study of the garden scale. Generally fine textures should be used in small landscapes, coarser textures in broader composition. Texture thus may materially aid in obtaining from the handling of scale in planning, certain desired effects. But whether a garden is studied with regard to its scale or not, it will have texture.

Texture is everywhere. There is no garden element without it. To realize what an important part it plays, one has only to think of a garden done all in enamel; an enameled lawn, an enameled shrub border, an enameled brick wall all smooth and shiny without any little lacey work of shadows in the surface of the material. Such a garden would be deadly monotonous, blurry, almost unlivable.

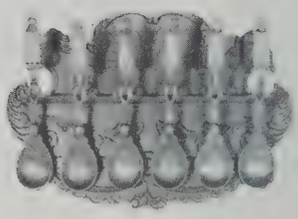
Texture adds softness, sprightliness, through the flashing of reflected light or the accent of deep shadow. It is as important in the garb of the garden as is texture in the gown of milady. As a sport suit may call for the rough texture of tweed, or an evening gown may require the shimmer of silk, so gardens may require shaggy texture or the immaculate, highly polished texture that might be expected in a garden intimately connected with a very fine house.

The range of texture is bewildering. There is the texture of the brick surface, the finer texture of marble, the texture of lawn that is like the nap on a deep carpet, and the laciness of shrub and perennial border, while evergreen and broad-leaf trees give altogether different possibilities to the designer who is considering the element of garden planning, which is encompassed in the consideration of texture.

One has to but think of the laciness of the Honey Locust as compared to the broad sturdy leaves of the Catalpa, to realize what may be done with foliage textures. The Catalpa is a tree which carries foliage that will tell in a large planting and broad picture, while the Honey Locust is a tree which, because of its laciness, will adapt itself to planting near the human habitation. As a general rule, the finer texture foliages can be placed better near places at which beholders may stand or walk when viewing the garden, while the coarser foliage should be placed at points distant from the viewing point. The whole character of the garden or landscape may be accented by certain handling of the elements of texture. As, for example, in the broader landscape of naturalistic design, the leaving of a shaggy lawn, rough, and unkempt sounds the very note of the entire composition. Carrying this idea further, Walnut, Elm, and Basswood with big Norway or Western Yellow Pine would give the tree texture in harmony with this scene. On the other hand, clipped Cedar or the trim Privet hedge of formal garden is not in keeping with the whole composition.

Perhaps one of the most valuable features of texture is the shadows that are cast by it. Rougher texture produces deeper shadows. They suggest the definition attained by being close to an object. Finer textures and lighter shadows suggest distance and dimness.

Texture is an element common to all portions of the garden or landscape scene. It is the element of design found in every portion of the garden. A garden may be well groomed or unpolished, depending on how this factor of texture has been handled in the garden planning. It is a subtle part of the garden design, but because it is a universal design element and because it is a dynamic thing in the garden itself, it can play a great part in expressing the personality of the landscape picture.



SMALL COMFORTS

FOR SUMMERTIDE COTTAGES

Photographs by courtesy of the Treasure Chest and the North Bennet Street Industrial School

From Carolina and New England come all these fascinating oddments which make for ease and add diverting touches of individuality to cabin, camp or cottage—ship's lanterns of several designs and sizes equipped for either oil or electricity; furniture fashioned of white oak and hickory, sturdy yet light; a pottery drinking set and a decorative spoon holder of pewter; hand-hooked rug of clipper ship pattern in blue, green, white and black; fireside basket firmly woven and stained brown or gray; a substantial little stool, an amusing 'moonshine' lamp in pleasant shades of brown and yellow; and the somewhat unusual 'English pot' firelighter finished in rust

Colonial Cottages in Miniature

Old houses that hold inspiration for many home builders of today

H. ROSSITER SNYDER

OLD Colonial houses, like Colonial furniture, are fast being taken off the market. They are being reconditioned by hands that cherish or, if beyond repair, they are wrecked very carefully and the fine old hand-hewn timbers saved for use in beamed ceilings of new homes, or braces for half-timber English cottages.

But there is no reason why the new home builder should not reproduce their charm. Just to see enough of them, to note their quaint touches, conduces to perpetuating their traditions in new construction.

Among the various types of homes built more than a century ago, there is none more charming or full of suggestion for the new home builder than the tiny New England cottage. The hip-roof type is standard among these. The placing and handling of dormers, to take full advantage of the upper story for light and airy bedrooms, is a study in itself.

In the illustrations, the handling of the dormers in the cottage at Higganum, Connecticut, is perhaps the most pleasing of the lot. These cling to the steep roof-line and do not offend the design in any way. This cottage shows that even the small house may be spacious even to the extent of boasting a diminutive attic, and still be beautiful to look upon.

The rear of the E. B. Leete cottage, of which the front view is shown below, at Guilford, Connecticut, has a curved roof-line, with another handling of a dormer, which is well worthy of repetition in new construction.

Then there is the other type of Colonial cottage, older in design and of a pure simplicity of construction which boasts no dormers or hip roof. This is often *(continued on page 498)*

Picturesque and charmingly simple in line is the Charles Peck house (above) at East River, Conn., built in 1790

Built some time between 1790 and 1795 at Higganum, Conn., this cottage (left) shows the familiar curb roof

Livable and friendly is Mr. E. B. Leete's home (above) at Guilford, Conn., built in 1789 by Benjamin Frisbie

When the British landed at Essex, Conn., in the War of 1812, men and officers were billeted in the house shown above and now owned by W. C. Post

A very satisfying porch treatment for any small Colonial house is found on this fisherman type cottage (right) facing Long Island Sound

Comfortably settled on a hillside at Old Lyme, this little oldentime dwelling (left) holds suggestion for the modern home builder

A Friendly Little Informal Garden

Using only very familiar, everyday, hardy plants. Eighth in the series of planting plans for the little garden

LILIAN C. ALDERSON

Connecticut

THIS is no magical picture, but a practical plan for a real garden, which, given a few years for the flowers and shrubs to develop, and the trees to assert their individuality, should respond to the sympathetic and understanding care that is essential to its well-being.

The house occupies the minimum of space compatible with comfort, with the garage and driveway tucked away into the corner.

The living-room welcomes the sunlight with large windows facing the south and west and the dining room leads on to a covered porch that suggests peaceful afternoons and dining out-of-doors.

A charming open terrace of broken flag is laid before the garden is begun, but beyond that is a wilderness of rough grass and weeds with one solitary Elm in the south-east angle of the lot.

The lay-out is a demonstration of what can be done in a given space, by the use of familiar material, grouped so as to give a feeling of harmony and intimacy, with plenty of freedom and open spaces. Only the hardiest plants are included, yet one might almost believe that the various trees, shrubs, and flowers had prepared a fashion show of their own choosing, so many seasons are represented.

The entrance strikes a formal note with a graceful Silver Maple on either side, with a touch of evergreen and Barberry for warmth. On the south side of the doorway a hidden path leads indirectly to the seat under the Elm tree, past flowering trees and shrubs, bordered with Forget-me-nots, Primroses and early spring bulbs. Wild flowers that bloom with bulbs are planted under the shade of the Elm tree with Lilies-of-the-valley, Ferns, and Funkias for later effect.

The Iris and Peony garden is best seen from the living-room window, its rainbow tints set off by the dark green of the shrubbery.

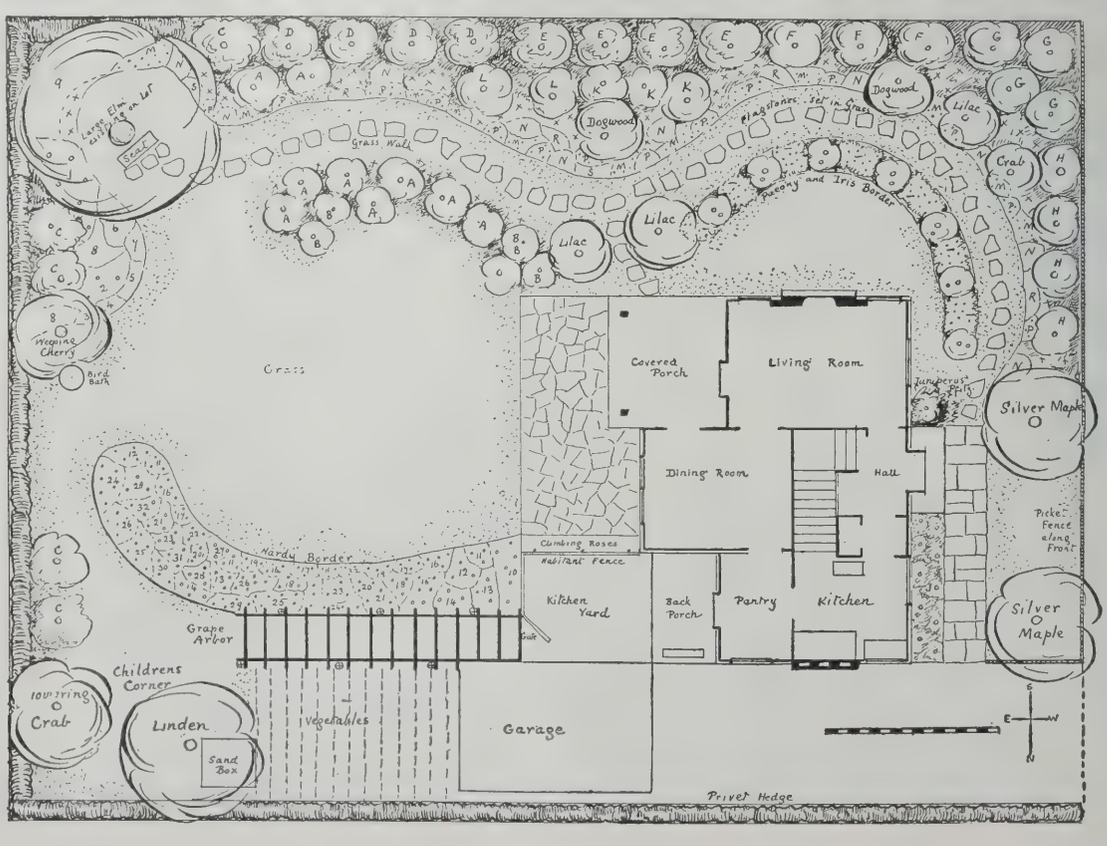
May and June are also represented in the flower border with Forget-me-nots

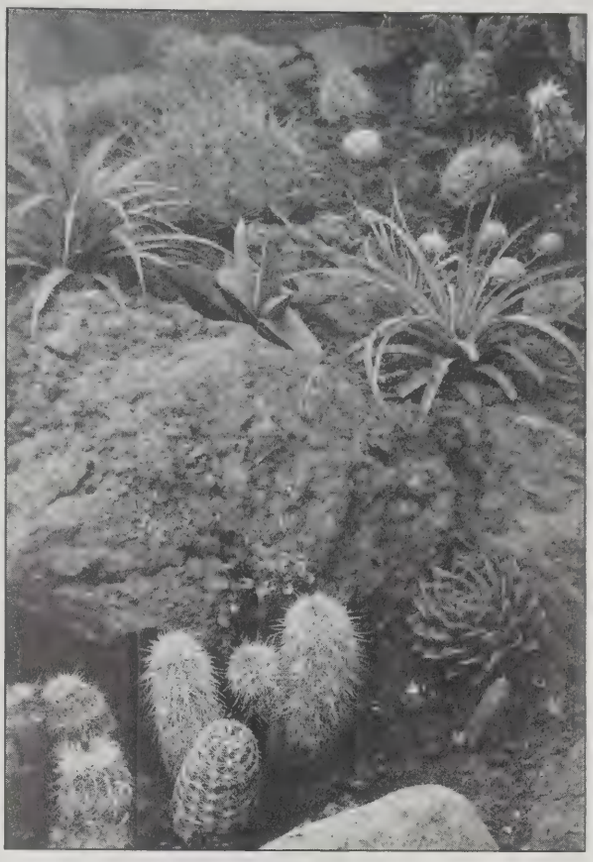
and Pinks, Valerian, Sweet William, and other flowers; but by midsummer the perennials are at their best with Delphinium, Phlox, and Veronica, to mention but a few, while Boltonia, Helenium and hardy Aster carry on into the fall. A planting of summer-flowering Spirea balances the picture on the south side of the lawn and in the center stands the bird bath as a focussing point under a Weeping Cherry tree.

The path to the children's garden is concealed behind the flowers and the vegetable plot is separated from the garden by means of a rustic grape arbor.

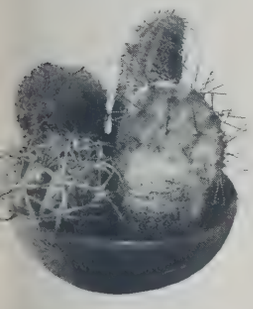
The entire garden is enclosed on the north and east by a Privet hedge, on the west by a sturdy habitant picket fence and heavy shrubbery, which continues round the south side in a wavy line.

(See page 500 for plant index and costs)





In the author's garden: Cactus are planted out in association with succulents and other plants, possible in a friendly climate. On the left Tritoma, Canary Island Stonecrop, some Sedums, Iceplants, Iris, Roses and Ferns about a pool. Right: Gasterias and Houseleeks combine with several Cactus in a small rock garden

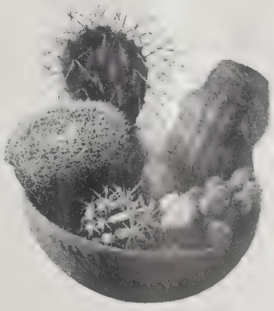


Cactus varieties for bowl gardens. At the back: Echinocactus chloranthus (all). Foreground: E. horizonthalonius and Mamillaria grahamii, with Opuntia macrocentro and E. intertextus

Making a Cactus Garden

CURTIS REDFERN

President of the Dahlia Society of California



In background Opuntia macrocentro, Echinocactus rigidissimus, Mamillaria heyderi and micromeris. Foreground: M. robustispina, M. lasiacantha and E. pectinatus carpitans

A GREAT deal of pleasure is to be had in growing Cactus, whether it be three or four species arranged in a bowl for office or living room, a portion or all of a rock garden with a few or many species, or several acres set aside for a desert garden.

The few simple cultural requirements are the same for the smallest bowl arrangement and the largest desert garden. Cactus, of which there are about 1600 species, are native of the Americas and their adjacent islands. They are to be found in arid and semi-arid regions and prefer a gritty soil of decomposed limestone with some decayed vegetable matter. Their growing season is the period of warmest weather and a good supply of moisture at that time will cause them to make several times the growth the same species would achieve in its wild state. With the return of cold weather Cactus become dormant, and little if any water should be given. Perfect drainage must be assured as wet feet, particularly in the dormant season and during the winter, will prove fatal. Sunshine and fresh air are essential, although some species grow wild under shrubs and overhanging rocks. In localities where freezing conditions prevail Cactus should be brought indoors for the winter. They can be potted and the pots buried in the rock garden, and as winter approaches the pot and plant can be taken up and stored away in a dry frost-proof storage room where they should be given no water.

As Britton and Rose's monumental work on these plants is out of print, and if purchasable would be prohibitive in cost for the average garden amateur, the accompanying table (page 482) has been prepared to assist beginners in selecting the species most suitable for the use they intend to make of the plants.

The list is divided into sections: 1. Species suitable for bowls. Most of these are dwarf varieties. 2: Species suitable for small outdoor rock gardens. Large growing species for use where a great deal of space is to be given over to a desert garden are out of the present picture, but many of those species can be planted as specimens against (*continued on page 515*)

Cactus for Small Rock Gardens

(*All plants starred are suitable also for miniature gardens.)

NAMES (small rock gardens)	HEIGHT	DIAMETER	TALL OR LOW	COLOR FLOWER	COLOR FRUIT	SPINES	REMARKS
Acanthocereus pentagonus	1′-10′	2″–4″	Climbing	White	Red	Gray	Night-blooming
Ancistracactus brevihamatus	2″–3″	2″–3″	Globular	Rose	Green	Long, hooked	Very rare
Ariocarpus fissuratus*	1″ -3″	1″–8″	Flat	Pink	Buried tuft wool	None	Large roots
" trigonus	1″ -2″	1″–5″	Nearly flat		As above	None	Very rare
Astrophytum asterias	2″–8″	1″–8″	Oval	Yellow		None	Very rare
Cephalocereus palmeri	1′-6′	1″–5″	Tall	Purple			Top of plant wool covered
Coryphantha echinus*	1″–3″	1″–3″	Nearly globular	Yellow	Dry	White	
" elephantidens	1″–6″	1″–8″	Oval	Rose		Brown	Quick grower
" erecta	1′-2′	3″–6″	Tall			Yellow	
" macromeris	6″–1′	2″–4″	Clusters	Pink	Green	Black tips	Deep rooted
" muehlendorfi	3″–10″	2″–5″	Elliptical	Yellow	Green	Long yellow	Long tubercles
" neomexicana	2″–8″	1″–3″	Oval to cylindrical	Purple	Green	White	In clusters
" pectinata*	1″–3″	1″–2″	Low	Yellow	Dry	White	
Dolichothels longimamma*	2″–8″	2″–10″	Low	Yellow	Dry	Yellow	Long tubercles
Echinocactus horizonthalonius*	2″–10″	2″–8″	Low	Rose	Buried tuft wool	Grey	Rigid spines
Echinocereus baileyi	1″–1′	2″–4″	Tall caespetose	Purple	Dry	Yellow	
" blanci*	2″–10″	1 inch	Procumbent	Purple	Dry	Very few	Grows in large clusters
" chloranthus*	6″–14″	2″–4″	Caespetose	Brownish red	Dry	Yellow and red mixed	
" dasyacanthus*	2½–14″	1″–5″	Caespetose	Yellow	Green	Red, brown	Spines very thick set
Echinocereus pectinatus*	1″–10″	1″–3″	Caespetose	Purple	Dry	Brown	Beautiful, easy to cultivate
" perbellus*	1″–10″	1″–3″	Caespetose	Purple	Dry	White	One of best for cultivation
" procumbens*	1″–1′	½″–1″	Procumbent	Purple	Dry	Very few	
" rigidissimus*	2″ -12″	2″–4″	Caespetose	Purple	Dry	Red, yellow and brown	Rainbow Cactus
Echinofussolocactus multicostatus	1″–6″	1″–8″	Low			Gray	Many ribs in irregular lines
" tricuspidatus*	1″–6″	1″–8″	Low			Gray	Same as above
Echinomastus erectocentrus*	3″–10″	2″–8″	Globular	Pink	Dry	Brown	Very early bloomer
" intertextus*	3″–10″	2″–8″	Globular	Pink	Dry	Yellow	Very early bloomer
Echinopsis (All)	2″–10″	2″–8″	Oval				Propagate from offshoots
Epiphyllum (All)	1′-15′	Flat joints	Climbing				Night blooming
Escobaria (All)	1″–10″	1″–2″	Caespetose	Mostly pink	Red	Mostly white	
Ferocactus hamatacanthus	6″–3′	3″–2′	Cylindric	Yellow	Brown	Long, hooked	
" johnsoni	3″–6″	2″–6″	Cylindric	Pink		Reddish brown	
" uncinatus*	3″–10″	2″–6″	Cylindric	Wine color	Red	Gray	
" wislizeni	6″–3′	3″–2′	Cylindric	Orange-red	Yellow	Brown, hooked	Fish hook cactus
Hamatocactus setispinus*	2″–8″	2″–8″	Globular	Yellow	Red	Gray	
Harrisia tortuosa	1′-15′	½″–2″	Climbing		Red	Brown	
Homalocephala texensis*	1″–6″	2″–15″	Flat	Pink	Red	Brown	Very rigid spines
Hylocereus (All)	1″–15′	½″–1″	Climbing				Night blooming
Lemaireocereus (All)	1′-10′	½″–1″	Climbing				Creeping or clinging to trellis
Lophophora williamsi	1″–3″	1″–8″	Nearly flat	Pink		None	The famous Mescal Button
Neobesseya senilis*	1″–2″	1″–3″	Flat	Yellow	Red	White	Long carrot-like roots
Neolloydia conoidea	1″–8″	1″–2″	Caespetose		Green	Black	
" texensis*	1″–8″	1″–2″	Caespetose				
Neomamillaria (All)	1″–6″	1″–10″	Nearly flat	Mostly pink	Nearly all red	Gray or white	Growing with long fleshy roots
Nyctocereus serpentinus	6″–8′	½″–2″	Climbing	White	Red	White	
Opuntia (All)							
Pachycereus marginatus	1′-15′	2″–6″	Tall				Very short white spines on margin of ribs
Selenicereus (All)							

Cactus for Miniature Gardens

(See also starred varieties on list above)

NAMES	HEIGHT	DIAMETER	TALL OR LOW	FLOWER COLOR	FRUIT COLOR	REMARKS
Echinopsis muelleri	3″–10″	2″–6″	Oval	Pink	Green	Few spines
" multiplex	3″–10″	2″–6″	Oval			Few spines
" oxygona	3″–10″	2″–6″	Oval			More spines
Epithelantha micromeris	¼″–½″	½″–1″	Globular	Pink	Red	Fine white spines
Escobaria tuberculosa	1″–8″	½″–1″	Caespetose	Flesh, pink	Red	White spines
Neomamillaria denudata	½″–1″	½″–1″	Globular	Pink	Red	White hairy spines
" heyderi	1 inch	1″–8″	Nearly flat	Pink	Red	Tuberous rooted
" microcarpa	3″–8″	2″–4″	Globular to cylindric	Pink	Red	Black center spine hooked at tip
" multiformis	2″–10″	1″–2″	In clusters	Pink stripes	Red	Clear yellow spines
" pusilla texensis	1 inch	1″–2″	"		Red	White hairy spines
Nyctocereus guatemalensis	6″–10 ft.	½″–1½″	Climbing			
" serpentinus	6″–8 ft.	½″–2″	Vine-like	White	Red	White climbing
Pelecyphora aselliformis	½″–3″	½″–2″	Caespetose			Very rare
Selenicereus boeckmanni	6″–6 ft.	½″–1″	Climbing			
" spinulosus	6″–6 ft.	½″–1″	Climbing			

Cactus and desert succulents used effectively in foundation planting at El Hogar, home of Mrs. Craig Heberton, Montecito, Cal.

Photograph by Collinge

Cactus for Fancier and Amateur

Bringing the strangeness of the desert into the garden

FRANCES DUNCAN

IT SEEMS as if Cactus had perhaps more personality than other plants; for those who love them, they have an abiding fascination. They bring with them an atmosphere of the desert, its strangeness and its charm. The forms are so curious, so extraordinarily diverse, that they sometimes seem like strange inhabitants of the desert, curious folk, rather than plants. A porcupine is no better fitted to discourage an enemy who comes too close than are many of the Cactus. The Opuntias could give him points.

Their extraordinary ability to resist drought, the hard, smooth impervious outer surface which seems as if it had been shellacked, but which makes evaporation impossible, and, in several forms, enables the Cactus to store water, these things make Cactus a race apart, untouched by the vicissitudes and necessities of other plants. Consider the way one roots a Cactus—breaking off a bit, and instead of placing it carefully in water or damp sand, exposing the break to sun and air until it has callused!

To the Easterner, the Cactus is a garden curio; to the Californian and the dweller of the Pacific southwest, a cactus garden is merely domesticating a bit of the desert he loves and visits when he can.

Some of the more formidable Opuntias and the many-branched, columnar Organ-pipe Cactus are used as barriers and rival barbed wire in the stoutness of their defense. In Mexico, this use of the Cactus is common. The gardener naturally turns to the many-flowering forms, and for Californian or Arizonan, who, living in a dry region had found lawn-making a task that taxed alike his patience and his water supply, a skillful grouping of Cactus with an adequate setting, and with these certain gay-flowering (*continued on page 515*)

With houses as with people it is the little touches, the unexpected dashes that give individuality—certainly a charming friendliness lingers about this century-old home on the Hudson. (Photograph by Mattie Edwards Hewitt)

Yes! You May Still Have Salads

Delicious greens which you can grow yourself to restore balance to your diet

ADOLPH KRUHM

AND salads mean vitamines—the elusive element nature stores to estore the balance of an unbalanced diet pt to rule rushing America. Don't worry, his is not going to be a lecture on how o eat, or what to eat, and when to do it. Reducing is out of my line, too, but I ould enjoy reducing your salad worries, or salads you need no matter how imple or elaborate the dinner.

There is one perfectly good Chinaman alled Wong Bok. I have never gone to ny laundryman to find out what that erm means. But as the American seed rade seems to think of Wong Bok as a erfect example of Chinese Cabbage, I ant to go on record that it is no Cabbage t all but a Mustard! Mustard, however, re members of the Cabbage tribe. Like ll the rest of the Mustards, Wong Bok refers cool weather. As a matter of fact t takes quite cool nights to cause the entleman to wrap his outer garments losely and tightly around himself. And hen there is born as fine a salad as ever assed the human palate. With the flavor f Nasturtiums is blended the 'savory' aste of Cress and all in handsome ellowish-green packages resembling a ig loaf, somewhat like a glorified (in iameter) stalk of Celery or Swiss Chard.

At any rate our Wong Bok does not are to be sown much before the middle f July nor much later than August 1st. The seeds germinate quickly, big green lants develop rapidly and, with the ap roach of cool nights, handsomely leached, tightly folded heads are ready. They average over three pounds in veight, are eight to ten inches tall by four o six inches in diameter. Mind you, all his without your help except to keep Wong Bok thriving happily by keeping down the weeds, keeping loose the soil, nd supplying water when the natural ource does not function.

Thanksgiving and Christmas seem a ong way off while we think in terms of Fourth of July picnics. Yet I would remind you that this is also the last chance o sow seeds of that most delightful salad called Witloof Chicory or French Endive. Sown during early July, the roots will just about have ninety days before they may be dug, cropped and put to work in boxes n the cellar to produce their delightful five and six cones. I have grown roots as large as eight-inch parsnips within three months' time but to do this the plants must be thinned out to stand five to six inches apart, the rows must be kept free of weeds and two good soakings must be given every week during August and early September.

Escarolle is the European term for that variety of Endive listed with our seedsmen as Batavian. It is different in leaf form only from the 'crinkly' varieties, having broad, fleshy leaves. Grown quickly, on good soil, it is quite tender, devoid of the bitter flavor and makes quite a palatable dish, especially if mixed with Cress. I am referring to the curled Upland Cress, also known as Pepper Grass, of which a short row should be in every garden. This Cress is such a rapid grower that I wouldn't think of sowing more than five feet of row at one time. Begin cutting it when quite young. It keeps on thriving lustily but will go to seed overnight as soon as it reaches its normal height of five or six inches.

I would gladly walk a mile any day to get a dish of Celeriac salad but, alas, it is rarely found except in obscure restaurants under management of foreigners. This Root- or Knob-celery forms fleshy roots, half above the ground, which reach their ideal size of five inches long by three inches in diameter around the middle of October. They may then be stored in a cool cellar, along with Turnips and other root crops. After boiling a few minutes, until a fork will easily penetrate the flesh, put into the refrigerator to cool. Slice about one-fourth inch thick, add French dressing, preferably with a touch of garlic flavor—and you have to eat it to find out just what nature stores in Celeriac.

After August first again sow seeds of early heading varieties of Lettuce which, during September and October will again run into climatic conditions similar to those that ruled during spring. Two little, unattractive looking varieties particularly useful for fall work—i. e., present sowing—are Mignonette and Crisp-as-Ice. Neither is as good looking as the handsomer butterheads of the Big Boston and Tennisball type but oh, what quality you'll find within the golden yellow hearts of either. Incidentally, a few short rows of early Radishes might do valiant service, especially since, thinly sliced, they add to the piquancy of any salad.

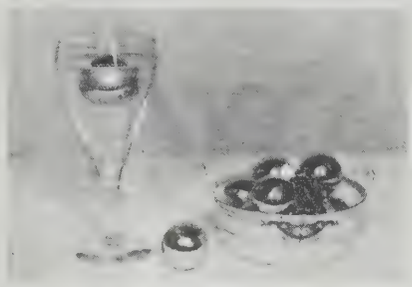
Few people think of Peppers in terms of salad plants and yet some of the large fruited varieties are so mild that they may be eaten raw, just as you would eat an apple. I am thinking particularly of three varieties which are ideal for salads and which come into bearing very quickly. It should not be difficult to secure at any good seed store sturdy plants for present planting. But I must insist that *you* insist upon any one of the varieties called Neapolitan or Sweet Salad or Early Giant. There is little use setting out late maturing varieties such as Chinese Giant, Bull Nose, Ruby Giant, etc. unless you are satisfied to have a frost spoil the choicest fruit as it is forming about the end of September.

A dozen hills of Cucumber will yield a surprising amount of fruits for either slicing or pickling, especially if you plant the right variety. I have long since given up growing the so-called pickling varieties. The White Spine type, being ably represented by such thoroughbreds as Davis Perfect, Fordhook Famous, and Early Fortune, will bear the handsome symmetrical fruits four to six inches long within sixty days after you deposit ten seeds to each hill. If the soil is as rich as it should be and you soak the hills well immediately after planting, you may reduce the number of plants to three per hill within two weeks. Cucumbers may be confined to comparatively little space by pinching back the vines. And if you think of putting up these Cucumbers as pickles, by all means sow a ten-foot row of Dill. The shrivelled up stuff you see hanging in front of green-groceries is not worthy of being called by that name.

Parsley is by all odds the greatest of all garnishing plants. As such, a short row should be in every garden, either vegetable or flower, for its foliage is undeniably just as ornamental as that of many plants which we cultivate solely for their foliage effects. Now the one big trouble with Parsley sown at this time of the year is that you wouldn't get much Parsley before frost, although it is quite hardy. But there is a way of hastening this. Soak the seeds in warm water, letting them remain in the water over night and sow promptly the next morning, in shallow drills which should be given a good soaking before seeds are sown. Inside of a week, seedlings should appear.

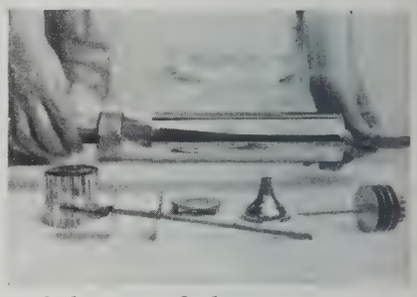
UP-TO-DATE DEVICES

Silver Ice



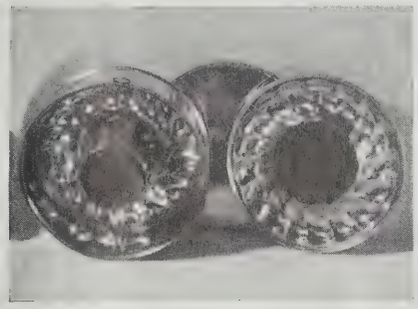
Almost indispensable this weather is silver ice, a brand new invention for icing drinks or fruits without diluting. These silver balls float in your glass or dish, and take the place of the ordinary ice cube made in your automatic refrigerator. Each silver plated ball contains water. When they are placed in the refrigerator ice is formed within the ball. When the ice melts the water is kept within the ball. The balls need no attention and will last indefinitely. They may be used very nicely for chilling lemonade, or fruits. ($6 a dozen; 50 cents each)

Combination Rolling Pin



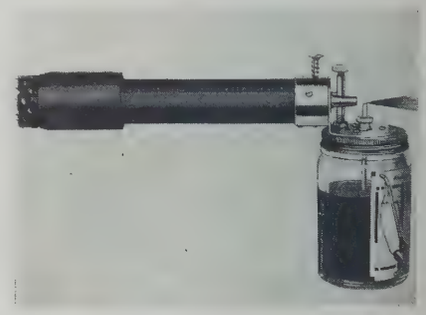
A cooking utensil that is especially valuable in summer, but useful all year round is this rolling pin with a hollow cylinder. There are numerous handy devices stored away in it: pull out the handles and there you find a cookie cutter and a sugar scoop; and anything else may be stored here for safe keeping. The best thing about it is the fact that in warm weather cracked ice may be put in the cylinder, to chill the dough and make it easier to handle. Housewives who are energetic enough to make pastry this weather will appreciate it! ($1.98)

Hinged Cake Tins



Cooks always dread it when the time comes for taking the cake out of the tin. Nowadays we are fortunate in having these tin hinged cake pans, with fluted bottom and hollow center, ideal for baking angel cake and any fancy cakes for birthdays, special occasions, etc. (In three sizes, $7\frac{1}{2}$ in. diameter, 75 cents; $8\frac{1}{4}$ in. diameter $1; 9 in. diameter, $1.25)

A New Sprayer



This sprayer which operates from air pressure supplied by the ordinary household vacuum cleaner, consists of a piece of tubing one end of which fits the vacuum cleaner attachment hose, the other end terminating in a nozzle controlled by a simple thumb valve. Any liquid or powdered spray material may be placed in the glass container which fits the jar. ($4.95)

Pocket Rubbers for Men

The vanity rubbers for women which we discovered and showed in these pages a month or two ago have aroused so much interest that we scurried about and found some pocket rubbers for men. They fold up into a small space and can be carried easily in the pocket, and are extremely useful on damp golf links, in the baseball or football stadium, and on wet city pavements. It is also a good thing to have them for boating—so often the bottom of rowboat, sailboat or canoe will be damp and uncomfortable. ($1)

Juice Extractor

Fruit juice quickly, with little effort! With this new juice extractor which takes care of oranges, lemons, grapefruit, and limes the old bothersome 'squeezing' of oranges has become a pleasure. You turn the handle, and out comes the juice. The bowl and reamer are of high grade vitreous china, easily removed for washing. They will not affect the flavor of the fruit juice, and are acid and stain proof. It is held in place by the four vacuum cups, and there are no clamps or screws. ($3.95)

We are very glad to offer a shopping service to the readers of GARDEN & HOME BUILDER. Send your check for the article you wish to Shirley Paine (payable to her), care Doubleday,

FOR THE HOMEOWNER

Safety Plug for Electrical Devices

Here is a safety plug which shuts off the current for you in case you answer the door or telephone bell, become engaged in conversation, and either can't, or forget to, come back to the kitchen. In shutting off the current automatically when a certain fixed temperature is reached, it also enables you to do a quick ironing of all kinds of clothes, such as silks and linens which do not require the same amount of heat. It is, indeed, another of the modern electrical appliances which almost think for the housewife nowadays. ($1.50)

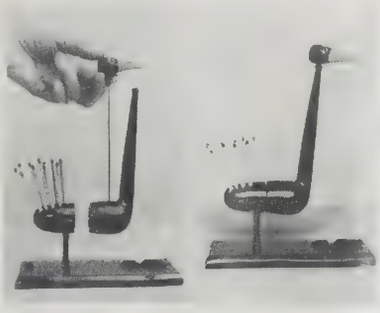
Non-spill Cork

An all-purpose pouring device for filling table service bottles with vinegar, oil, or other liquid condiments, doing away with messy funnels, is something that the housewife will welcome. The visible even flow from the clear glass tube can be stopped immediately without danger of splashing and staining clean linen. It may also be used for filling the automobile or radio battery with no danger of spilling and consequent burning with acid. (In sizes to fit bottles from one ounce to five gallons, at 10, 15 and 20 cents)

Windshield Screen

A windshield screen has come to the rescue of the annoyed motorists. It screens the dust and also permits good ventilation without direct draft. When ordering give name of car, year, and body style. $3.75 for Pontiac, Chevrolet, Oldsmobile, Chrysler 52 & 62. $4.25 Buick, Oakland, Cadillac, La Salle, Chrysler 72 & 80, and Graham Paige.

Novelty Pipe Set



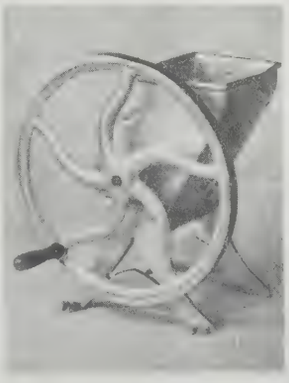
This grotesque duck is in reality a briar pipe, a holder, a cleaner, an ash tray, and a match stand. The illustrations show the outfit assembled (right), and also in the act of being taken apart. The pipe holder is a pipe reamer for cleaning the bowl; the metal rod is the cleaner for the stem; and its handle is the duck's head. A match striker is found on the base. ($5)

Electrically Lighted Refrigerator

Another household convenience especially appreciated in July is the modern electrically lighted cabinet for a mechanical refrigeration unit. Its dome light floods the interior with light so that articles on the back are as easily seen as those near the front. A handy ice pick is provided, also self-locking door handles; and the dome light can be operated with the arm or the elbow when the hands are otherwise engaged. Pure cork board insulation is one of the features of the cabinet. (Write for price lists)

Ice Crusher

Chopping ice for cooling drinks or for frozen desserts is an untidy job: not only does it spoil clothing but it also makes the floor wet and slippery. Moreover, there is a great deal of waste, for bits of ice (and fairly good bits, at that) fly off the table and secrete themselves in the shadows. With this ice crusher shown at left, you simply put a piece of ice in the hopper, turn the crank, and out it comes, ready for frappés, cocktails, salads, etc. The crusher is heavily galvanized, easy to clean, and will not rust. ($9)



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Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

'Palm' Willows

THE sight of sprays of 'pussy willow' in the altar vases on the morning of Palm Sunday reminded us that an old English name for the Willows, or Sallows, is said to have been 'Palms.' This was because in the country districts they furnished the earliest green branches readily at hand, and so were used in the village churches instead of Palms on Palm Sunday.

These however would not have been quite the same as our own 'pussies,' for the Salix discolor is, I believe, a native of this continent.—Mary Johnston, *Jacksonville, Ill.*

[3]The English species of Willow called Palm is Salix capsea, and the popular name was transferred to the nearest like plant in the new world.—Ed.

Nicotine and Soap for Delphiniums

THIS is in reference to the article on the disease of Larkspur—page 148 for April.

The trouble with most of the Delphiniums on Long Island has been not the meeting of the so-called blacks on the leaves which can be cured by treating the plants with lime and tobacco and by various other sprays; the difficulty has been to have the flowers come out without 'clubbing' as I call it, that is, with the flowers all massed together, the spike stopping before it is completed, leaving a disagreeable looking mess. [What you describe is the thing we understand as 'blacks' as affecting the flower.—Ed.]

For the past two years, with Mr. Freeman Weiss of the Department of Agriculture, I have been experimenting in curing this clubbing and the Department, under Mr. Weiss' direction, have been making some experiments on their own. As a result of those experiments last year my gardener sprayed all my Delphiniums with nicotine and soap—the soap being added to give more adhesive properties to the nicotine solution. The results were most favorable. Formerly I was lucky in having forty per cent. of the Delphiniums flower as they should flower where last year I certainly had at least ninety per cent. of success.

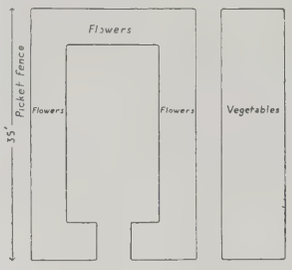
I most certainly would recommend that a solution of nicotine and soap be applied to all Delphiniums every two weeks, from the time they first appear above ground until the flower breaks.—Frank Bailey, *Long Island.*

A Little $20 Garden

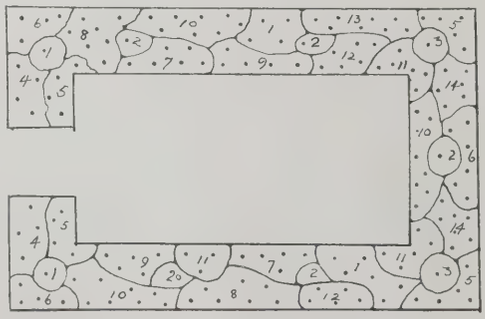
THE attached is a rough sketch of a plot of ground at the rear of a residence, open on three sides, picket fence on east side.

It was the owner's first venture in flower gardening and he wanted a suggestion for an arrangement of perennials giving the most satisfactory all-season display. One requirement was that the plants be bought at a cost not exceeding $20 as the occupancy was temporary and the gardener wanted to be sure of bloom the first year.

Also, it was wanted to have suggestions regarding the most suitable arrangement of annuals to be planted from seed sown in the open during early May, with quantities of seed to be bought.



Suggested layout for plot of ground at back of residence, the whole planting of annuals and perennials not to exceed $20



Detailed planting plan of flower borders, the key of which is given in the text at right

A flower bed at the front of the hou faces north and, therefore, has but lit sunlight. One flower bed at the side the house has only about two hours su shine during the day. What would suitable to plant in shady locations su as these?—F. F. T., *Montreal.*

The accompanying plan was prepar to meet the conditions. The design remarks 'to keep within the $20 lin the number of plants must be reduc perhaps from 20 to 30 per cent. and t resulting space filled this summer wi annuals.' The hardy herbaceous plan suggested are such as should live wi a covering in Montreal through the wint and give abundance of flowers the fi season. Annuals suitable for cutting a to be used as suggested are: Alyssu China Aster, Calendula, Centaurea, N turtium, Portulaca, Snapdragon, Scabio and Zinnia. Others, of course, may more suitable to one's needs and can determined by looking through any of t leading seed catalogs. Buy one packa of seed in each case.

The flower bed in the front of the hou is in a shady spot and therefore prese difficulties. The best result will be tra planting from the woods such Ferns as found in the neighborhood, bringing a plenty of leaf mold to make the soil su able. With this one could bed out for t summer, started plants of tuberous I gonias and in the proper season one co add such things as Solomon's Seal, Li of-the-valley, and some of the nat wild Violets. It is not practical to ge spectacular flower border in a posit that is shaded.—Ed.

The numbers on the plan correspo with the key below:

1. Delphinium Belladonna
2. Rudbeckia purpurea
3. Aconitum napellus
4. Gaillardia aristata grandiflora
5. Siberian Iris, blue
6. Achillea ptarmica The Pearl
7. Dianthus latifolius atrosanguine
8. Coreopsis lanceolata
9. Shasta Daisy
10. Anthemis kelwayi
11. Papaver nudicaule
12. Veronica spicata
13. Monarda didyma
14. Delphinium chinense

ANDREWS, *Blackheath,*
h, "royal and ancient
clubs," are motifs of this
int design. A Schumacher
ed chintz available in
each, blue or autumn

Classic events of Links and Turf

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"VIEW HALLOO" *is a spirited hunting scene with scarlet-coated horsemen and hounds in full cry. A Schumacher glazed chintz in ground colors of sage, Hunter's green or brown (left)*

"THE DERBY STAKES," *a new glazed chintz by Schumacher, pictures the celebrated classic of 1820 when Thornton's "Sailor" won. The background colors are henna, brown or blue (right)*

F. SCHUMACHER & CO.

YOUR GARDEN IN JULY

T. A. WESTON

In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind; Quincy, Ill., Denver, Colo.

IF CONDITIONS should prove warm and dry, water is essential to promote good growth. Some labor under the delusion that watering cannot be done when the sun is shining, but actually it is better to do so during the day than in the evening for then the temperature is dropping and the water cools it still more. The point to remember about daytime watering is that it must be thorough; if it is sprinkled around the foliage, just wetted, and the ground not well soaked, evaporation is so rapid that scalding of the plants may result while the surface roots are half cooked. A real soaking as given by an overhead sprinkler reduces the temperature generally, both of atmosphere and soil, consequently evaporation is slower. One can readily understand the effect of rapid evaporation by touching the skin with spirit, the sudden evaporation causes chilliness, and, in the same way, water suddenly evaporated on heated foliage is liable to cause what is termed scald or burning when, in reality, it is due to chill. Seedlings in a frame should especially be watered sufficiently early to allow for drying off before nightfall. I prefer to get out early in the morning to spray my small seedlings; the damping-off plague is menacing enough without inviting it by evening watering.

Transplant Seedlings When Ready

Around this time not a few seedlings of various sorts should be ready for transplanting, the general run of hardy perennials and biennials sown in May will be large enough for pricking off, as it is termed, into beds where they can develop into sizeable plants for shifting in the fall. The stronger growing things such as Larkspurs can be planted out 3 inches or six inches apart in the open, but the slower growing items, and those that come from small seed, are safer if first pricked off fairly close in frames and, later on, again transplanted. Most Bellflowers (Campanula) whether of the tall persicifolia class or the miniatures like pusilla, are so small in the early stages that they need some care. While very small they need shifting just as much as the coarser-leaved subjects; more so in fact, because they usually come up thickly and are subject to damping off. Generally speaking, seedling hardy plants make better headway if pricked off into the ground, and if protected by shaded sash they are safe from rainstorms. In ground beds, small seedlings are subject to attention from cut worms and other pests even more than when in pots or boxes.

Prepare for Propagating Violas

Now is the time to cut back a few plants of Viola Jersey Gem. Usually by early July the earliest growths will have become rather leggy and new shoots will be pushing up from the center; these latter will in due course flower and to give them a chance it is good policy to gradually cut away the older growths. Don't do it all at one time as it would mean a gap in flowering and if the central growths are not well advanced, it might mean total collapse of the plants. Jersey Gem can, however, stand cutting back entirely in midsummer more readily than the ordinary bedding or English Violas.

Viola Jersey Gem can be increased either by cuttings or by division. Plants cut back this month can either be divided or the basal growths, as they push up, can be pulled out and easily rooted if inserted in a shaded but ventilated frame of sandy soil during August and later. Cuttings may be inserted right up to the end of October and as a general rule, those put in during the cool weather of the fall will root more readily and usually flower earlier than divisions. Dividing the old plants into several pieces during early September is the best method for the gardener who does not require large numbers of plants.

Time to Lift Tulips

Tulips should be ready for lifting early this month; just as soon as the last leaf is yellowing it is advisable to dig them up. Once the stems dry completely and fall away from the bulbs, it is more difficult to find the bulbs. Keep them in trays or open paper bags in a dry airy position, but away from sunlight. They can be cleaned up as soon as dry. The bulbs must have air and be kept dry, for it is during the period of storage that the embryo bud is formed. It is all wrong to assume that bulbs of Tulips, Hyacinths Narcissus and the like, make their buds while growing. Providing the bulbs make good foliage, they store up a good supply of food, but it is during the three months or so following the ripening of the foliage, that the embryo flower buds are formed. This year with me Hyacinths, Emperor Daffodils, growing on a hot southern border undisturbed for several years were blooming at Eas magnificently; ho grown Emperor t were lifted, ripened, a replanted in Octo were three weeks la in flowering and o half the height. The planation is simpl the lifted bulbs ca from heavier, col ground and were not ready to lift until l July owing to the cool moist weather. C tinuing, the bulbs never properly rest The Tulips were even more erratic those that were lifted and replanted, w in many instances barely out of the grou at the end of April; some seasons Darwins have started blooming the l week in April and were all through by end of the third week in May. Very m depends upon the soil and the positi where spring bulbs are concerned.

A Few Routine Details

Don't forget to spray the Roses re larly. Periodical spraying will do m to hold off the so-called Delphini blight. There are not a few 'bugs' t are satisfied to derive a living on Currants, Gooseberries, and other fru The larger fruits like apples and pe are now building up fruit buds for n year and a little superphosphate and p ash is good if they are making m growth. Masses of young growth do always mean fruit buds; if these yo growths are pinched back half way r and then, it may encourage the b eyes to develop fruit buds. Dah ought to be growing now and a stak time will save a possible heartache windstorm arises. Do not allow too m lateral growths.

Gladiolus, are better for staking; b boo canes are the best. There is still t to put in a few bulbs of the early flo ing 'Glads' for bloom in late Septem or early October.

In the vegetable garden see to it t the ground is kept well stirred.

Sow Rutabaga or Swede Turnip e this month. It likes good ground.

Plant out the various brassicas on cant spots.

If any of the Peas are finished c them out and plant out greens and the plants to keep off butterflies.

Still time to sow another batch Bantam Corn.

If late young Carrots and Beets favored, sow some more seed.

Celery should be ready to go out r it wants lots of manure and water. Pla in shallow trenches.

If the Tomatoes are staked, keep tied and remove the side growths quently.

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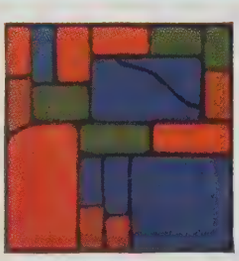

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Your Garden on the Pacific

ELIZABETH URQUHART

LREADY the gardener must be making out lists of seeds for next r's plants. Seeds may be sown now ner in the open or, preferably, in l boxes where they can be pro-ted from summer heat and receive ular and constant care and water-. If seeds are sown now, the garden s an early start and there will be h young plants to replace those ch finish their work in the autumn, many of them will bloom during winter and early spring.

ow Pansies, Violas, Carnations, llyhocks, Stocks, Wallflowers, Col-bines, Candytuft, Delphiniums, ox, Marigolds, Forget-me-nots and mroses, also the biennials—Foxgloves Canterbury-bells. Viola Apricot ery desirable and of a lovely apricot or. Virginia Stock and Viscaria may planted now and again a little later, successive sowings will give an al-st continuous blooming of these.

Freesias may be planted now, setting m out about five inches apart and nting two inches deep. They may be grown from seed. Look for seed-gs coming up under both perennials annuals, and set them out in boxes ere they can be cared for until time plant them in the garden in the winter and early spring.

Garden Housekeeping

There should be a general tidying-up this time, cutting away all faded oms and foliage, and also seed pods ept where seeds are wanted, as this longs the blooming season. Where bs have been taken up, annuals and ennials such as Asters, Zinnias, reopsis, etc., may be set out in the pty beds. Keep the weeds down re-tlessly.

f Pelargoniums and Nasturtiums in bloom, do not overfeed or over-water them, as they will produce more foliage than blossoms, and if Delphiniums have finished blooming, after saving some of the seed pods for sowing, cut them down and they will bloom again later in the season if cultivated and watered. Use either commercial fertilizer or bone meal for Delphiniums, as manure worms often prove fatal to the plants. Begin watering Amaryllis this month, as they will come into bloom in August, but it is better to reserve a few groups for a later start, so as not to have them in bloom all at the same time.

Roses

Roses which have bloomed through winter and spring now need an enforced rest, and should be pruned and cut back and only watered enough to maintain life without encouraging bloom, although some growers recommend pruning after their midsummer rest. The pruning should not be so thorough as later in the year, but all dead wood should be cut away, also some of the branches which have bloomed, and fewer shoots left for the late blooming. This mid summer rest and pruning insures finer flowers for autumn and early winter. Bone meal is recommended for fertilizer.

Autumn Plants

Give special care through the summer to the autumn-blooming plants, such as Chrysanthemums, Cosmos, Salvias, Dahlias, and Chimney Campanula. Keep them well staked up and well fertilized and watered, taking particular care of the tall Campanula. As this blooms so late in the year and sometimes is caught by early frost, it is well to grow some in tubs or boxes, and remove them to the shelter of a porch or the house, and so escape high winds and frost.

Your Garden in the South

ETHEL HUTSON

WITH the hot July sun beating down most of the day and an al-st daily rain that comes with sur-sing suddenness and is gone leaving e sun shining as hot as ever, the so-led 'hardy' plants of the northern itudes and higher altitudes stand y little chance of weathering through e summer in the Far South. Peren-ls that brighten Northern gardens nply burn up, or fall a prey to insects d snails, unless given unusual care. On the other hand, rank-growing nts thrive so well that people going ay for a few weeks' vacation often ne home to find their choicest Roses, gonias, Jasmines, or other plants not well established, have been smothered irely by volunteer Morning Glories, ematis, or some other vine grown yond all expectation; or the Poin-tia, Night-blooming Jasmine, or some ner rank grower has blown over, vering plants that did not seem within ching distance when the owner left. The hoeing is necessary because the rd pelting of the rain packs the ound badly, preventing the rain from aking in as it should, allowing it to n off faster, and causing greater evap-ration than when the ground is oken and uneven.

The pruning is necessary because nk-growing plants spread beyond their rightful bounds, taking the sun and air from more tender plants. Anyway, it is now time to cut away much of the old growth on spring-flowering plants, so this year's growth will develop in graceful forms for next year's blooms.

Watering is very necessary on the days when the usual rain fails to appear, and in those spots under the eaves or beneath the oak that never seem to get enough water, even from a rain. The need for weeding will be apparent to anyone, for weeds seem to spring up overnight and grow a foot high in a few days. Great care is needed in taking weeds out from between small plants, as in uprooting the weeds the roots of the other plants are often exposed or loosened, too. Just after a heavy rain is the proper time to do the pulling.

Winter-flowering Bulbs Lifted

When hoeing to rid the summer flowers of weeds and to 'break' the soil around them, there is danger of cutting the winter-flowering bulbs. These can be removed as soon as the tops have dried, the bulbs dried out in a shady place, and then put in paper bags with the names marked on each bag so there will be no mistake the following season. These bags can be hung up by strings so mice, roaches, and ants will not harm them. *(continued on page 503)*

Hardware in the AMERICAN Manner

Sargent Hardware of solid brass and bronze is correct for doorways like those in the Metropolitan's exhibition of Early American exteriors

SCREAMING from above the pediment of the Bristol House of New Haven, Connecticut, the spread-eagle stands, typical of the early eighteen-hundreds. Typical, too, is the doorway and porch, with a design worked out in purely wooden quality . . . and with the small round knobs and plain keyplates.

In the Colonial doorways of the Metropolitan, there is much of interest to those who build in the American manner. It is pleasant to note that solid gleaming brass or bronze hardware correct for such homes is made today by Sargent. This hardware is made from authentic Colonial designs. Entrance handles, doorknockers, door knobs, and keyplates for interior and exterior use. All precisely and faithfully made to last for generations of users.

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This doorway and porch is from the Bristol House, New Haven, Connecticut, built in 1803-04. David Hoadley, architect. In setting up the twelve doorways in the exhibition, in which this appeared, the Metropolitan Museum equipped ten of them with original brass hardware correct for their period.

This eagle doorknocker is similar to those prized in the early 19th century. There are other doorknockers in the Sargent line. This is listed as No. 16. Here is a plain brass knob, suitable for your Colonial home. Knob No. 1845, Cylinder Rosette No. 1. Sargent also makes entrance handles of various authentic designs, connecting with firm cylinder locks.

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THE SCHOOL NATURE LEAGUE
AMERICAN FORESTRY ASSOCIATION
WILD FLOWER PRESERVATION SOCIETY

AT THE International Flower Show held this last March in New York there was one exhibit which more than most of the others aroused interest and comment. It was an exhibit that holds such inspiration for garden clubs everywhere that we are going to tell of it and picture it, for it shows what a club may do in the way of conservation. This exhibit consisted of plants and soil to the amount of one whole carload brought from the Mojave Desert in California and was sponsored by Mrs. A. Sherman Hoyt of the Pasadena Garden Club. So much of natural beauty is being destroyed around us that even the desert is no longer safe, and when we realize what this one club is trying to do it may open our own eyes to what may be done in our own localities. So lovely was this exhibit, so very well worth while, that it has been removed to the New York Botanical Garden where its fifty or more native plants speak eloquently for conservation.

Mrs. Hoyt is working for just the very thing that is of such vital interest to coming generations, the setting aside of spots of national importance. In California she hopes to have set aside ten thousand acres in the Mojave Desert embracing Red Rock Canyon, the Petrified Forest, a large grove of Joshua trees which are among the oldest known desert plants and which enjoy an exceptionally long life. She would also have set aside the well-known Palm Canyon in the Colorado Desert before all of these wonderful Washingtonia Palms have been destroyed, and, as if this were not enough, she is working for the conservation of the alluring Painted Canyon in the Colorado Desert.

Fifty-four varieties of desert plants were brought to the exhibition and set up in naturalistic fashion, and among them are two that are very interesting—the Joshua tree that lives from five hundred to two thousand years, and the Giant Cactus which Mrs. Hoyt designated as 'a debutante one hundred years old.' These two, either from a landscape or economic point of view are the two most noted examples of all desert growth north of the Mexican border. Among the plants in the collection are the Grizzly Bear Cactus, the Barrel, the Organ Cactus, the Lord's Candle, the Smoke Tree and Greasewood the Desert Holly, Opuntia and many others. 'The body of the Joshua tree,' says a leaflet about the exhibit, 'is made up in very thin layers with a coarse interlaced and almost indestructible fiber. These are used for a number of purposes, one of the most important being for splints following surgical operations and for broken limbs. They have also been used quite extensively as protectors for the trunks of young trees in planting orchards, affording a protection against extreme sun or frost and as a safeguard against destructive rodents intent on barking the trees. About fifty years ago there was quite a movement on in the manufacturing of paper from the Joshua tree.'

Here are two photographs of the remarkable exhibit of Cactus in natural setting contributed to the New York Flower Show in March of this year by Mrs. Sherman Hoyt of Pasadena, Cal. The back drop was a large painting portraying an actual scene in the desert country and made especially for this exhibit. Each specimen shown had a number tag which corresponded with an explanatory catalogue that was a small manual of Cactus and succulents

The Greasewood and in fact all the other trees play important rôles so that the conservation project is indeed one of national interest.

This is work that concerns every garden worker since in nearly every community there is need of similar activity.

Every garden-lover, each person interested in nature's beauty, each civic-minded man or woman who appreciates the value and pressing need of conserving this natural beauty will find themselves amply repaid if they will but go to the New York Botanical Gardens in Bronx Park to see this exhibit. It is indeed an example for every garden club.

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Rock Gardening Without a Rockery

Continued from page 463

planting you may add a Dwarf Bearded Iris such as Mr. Dykes' Kurdistan which is red-purple, or else you could use the blue-purple Gorgeous of Mr. Perry which is about ten inches in height. Groups made up with Lilac Mosspink (Phlox subulata lilacina), white Carpathian Bluebell, the dark Grape Hyacinth (Muscari paradoxum), or the later Hyacinthus amethystinus in blue or white, with pink Phlox, Campanula muralis, mauve Dorothea Crocus, white Alpine Aster, Pentstemon arenicola or Pentstemon fremonti are all good.

FOR BORDER ROCK GARDENS

In border rock gardens use only the smaller Spring Crocuses, confining yourself mostly to species, and where you have a pale, washy thing such as Crocus versicolor try to offset it with a bright Speedwell or Pink.

Where there is white Mosspink a drift of the tiny yellow Crocus susianus would not be wrong and try rosettes of Globedaisy (Globularia nudicaulis) if there is a half-shaded corner.

For flatter bed-margins where the soil is about on a level with the path (and where probably there is merely a line of low cobbles) the mossy Pearlwort (Sagina subulata) is attractive and here you may use a coarse growing Stonecrop like spurium if you stick to the red or pink forms. But should you have fine Tall Bearded Irises in the border behind be ruthless and keep the Stonecrop cleared away from the Iris rhizomes as it likes to absorb every bit of open ground anywhere near. Like most rampant growers this does well in shade.

To vary the color of foliage and extend the blooming season with Stonecrops I do not confine myself to one or two kinds, but have as many as I can get; in fact, I went quite mad on the subject last year and made an edging to a new path of nothing but Sedums and Sempervivums. Here is much choice even in varying forms of the same variety. Of Sempervivum arachnoideum there are spiderwebs and again more spidery ones and webbier, and varieties more webby. Never much bigger than a quarter of an inch in diameter is Sempervivum arachnoideum bryoides. These plants have their seasons of webbiness too, sometimes all gray and white looking, as Mr. Farrer said, 'like dropped shreddings of a fleece,' sometimes quite plain and innocent. There is also a choice in color of foliage and flower, for you can have the variety triste of a dark, red-purple with sharp, spine-like points, or the blue-green pincushions of calcareum or the tiny, green cabbages of globiferum. Then, there are gray-green cobweb-like rosettes of fauconneti and a large affair which is a glorified form of the common Houseleek, Sempervivum tectorum magnificum.

SOIL PREPARATION

I prepared the soil especially for this straight, long edging, making a mixture of one part sand, one of the soil that was already there and one of the remainders of well-sifted coal ashes from pea coal. These little hard red and gray cinders looked so pretty that I dotted the surface generously with them between each variety of Sedum Sempervivum I made a goodly pile them together with larger stones ab the size of an egg. These piles wrigg about and made the divisions of une shape or size. A very thick dusting ground limestone was scratched into top inch of soil for most of the pla because, from observation of their ha under wild conditions I noticed a g many varieties flourishing on limesto As the path is shaded at one e part of the day, I put Texas Stonec (Sedum pulchellum) there. It like cool, damp place and seems w named when in late summer, it op its lovely pink flowers. The real St is here too, very low and neat in ha with yellow flowers. Such 'ittle treasu as the Leafy Stonecrop (Sedum da phyllum) and the real anglicum m have some chance such as this to along without having to struggle agai other plants. This leafy Stonecrop one of the most valued of my pla The fat, infinitesimal leaves are a li gray, even more pale blue than green detests to be overshadowed or drip upon and water thrown carelessly on of it will soon prove a discouragem

A HINT FROM FRANCE

What fun it was to find this dear fri in the south of France, always, I no in very dry, rubbly, edges of walls in full sun! Sedum anglicum is suppo to be a very small form of Sedum gl cum (often called hispanicum) w white flowers having black anthers is practically an annual and seeds v freely. The foliage varies from gr green to pink and is sometimes alm red, so one can make quite an effect selecting dark shades and pricking th out in a drift near together. In a corner we can be fashionable and to Cactus. The small Prickly P (Opuntia opuntia) flourished on a gr bank and (Opuntia arenaria) with l finger-like and very spiny sections decorative in its small way.

STARTING FROM SEED

When trying to get rock-plants tablished in full sun, it is often be to start them right on the spot f seed rather than to try to transpl By sowing the seed in the niche the paving, sprinkling the area wee stones and watching carefully weeds one can often obtain a nice str of a plant that has refused to live in place before. Thymes are easy to s from seed and do well in paving but do *not* like to be walked upon in my den though I have walked over hund of them in their native habitat and did not seem to mind at all. Perha was because we never went back t quire about their health the next

Two plants to avoid are Stringy St crop (Sedum sarmentosum) and M rugosus. They grow so rampantly they are death to anything in vicinity. However, I find the fir great for putting under old everg trees. It is more spindling of gr there, to be sure, but it blooms and is nothing else that will stay there to harm! Mazus I now use to fill in patches in the 'lawn' where W Grass flourished formerly.

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Plants, in 10 choice va- eties. Each separate and beled for - - - - **$5**

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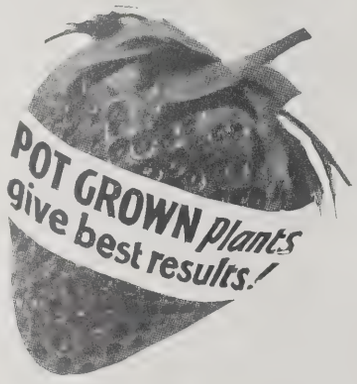
Size and flavor depend largely on the vigor of the plant. Vigor comes from the delicate, fibrous rootlets. The WHOLE root system is necessary for the largest, most delicious fruit. Horticulture has proved that pot-grown plants produce a larger and better quality yield than field-grown.



No more root mutilation when you transplant!

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36 Plants for $4.00

75 Plants for $7.50

The above includes special selections of the three finest varieties ripening over a long season.

We will gladly send you on request our little catalog of big strawberries

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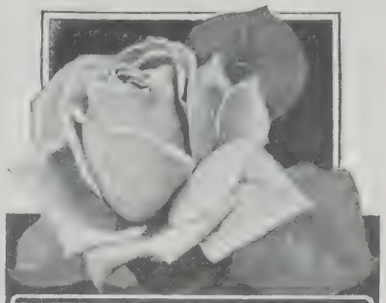

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No matter what plants, flowers or trees are infested, "Black Leaf 40" (nicotine sulphate) is the old reliable spray for killing aphis, thrip, leaf hopper and similar insects. That is the successful gardener's way. He keeps "Black Leaf 40" on hand knowing that these pests may appear almost over-night.

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Instructions come with every package. The ounce bottle, for 35c makes six gallons of effective spray. Sold also in larger sizes by druggists, hardware, seed or department stores.

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REFRESHED beauty is brought to all growing things by the gentle shower of the Double Rotary Sprinkler. Its soft, soothing rain-like drops are certain protection against scorching sun. Sprinkles in a circle covering 5000 square feet. Easy to adjust nozzle to sprinkle down to 15-foot area. Self-operating—needs no attention. Convenient skid base.

The Double Rotary Sprinkler is used and endorsed by thousands of home owners, landscape engineers and gardeners. Built for years of trouble-free service. Standardized parts. Bronze and steel gears run in oil.

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HYPER-HUMUS
"Puts the Top Into Top Soil"

For Lawns, Gardens, Shrubbery, etc.

Colonial Cottages in Miniature

Continued from page 479

built with a 'single overhang.' In this type, regardless of what direction we view the design, everything is balanced about a center. With a steep roof, the upper bedrooms are still commodious, and the slope of the roof lends itself to small closets extending out to the eaves. The closets are often lighted with exceedingly small four-pane windows.

The charming cottage, built in the side of a hill at Old Lyme, is an example of what may be done in sightliness and background if one is so fortunate as to have a lot thus located. Here the cellar assumes importance with its full-sized window.

If a porch is wanted in conn with these little cottages, a goo ample of handling this demand i in the fisherman's cottage facing Island Sound at Waterside La Clinton. Here, the curving roo like the visor on a jockey's cap, pr two porches and becomes a pl feature of the design, saving it mediocrity.

Good roads and automobile sending the people who appr real values in life to the country and, whether they ride in 'flivv behind Sunbeam engines, there is of beauty to be found, or made, t tect them according to their need

Making Your Camp Comfortable

Continued from page 459

there wasn't! Big fireplaces are mighty romantic, and mighty costly, too. So we compromised by supplying several small portable oil heaters. On a chilly evening, or raw rainy day, these give all the warmth needed.

I have said that there was an oil stove in the kitchen. This is a good four-burner affair equipped with an oven. An oil stove is infinitely more convenient for summer use than a coal or wood range; and is only a trifle more trouble than a gas or electric affair.

Did we rent our camp? We did—and the tenants were delighted with it!

HOW MUCH DID IT COST?

If this were an imaginary story I could, of course, give you an absolutely complete scale of prices, telling you to the fraction of a cent what everything cost. But since it's just a plain tale of how two real people really fixed up a real camp—why, I can't tell you what it cost!

You see, the work was done by the day, and the same country carpenters did the woodwork, the concrete, and the plumbing. Moreover, I had some of the old material on hand. Still, I think that if I had bought new material, the total cost of water supply, plumbing, water heater, etc., would have been about $300. This does not include the well, nor any method of sewage disposal. If high-priced mechanics had been imported from the city, the cost would naturally have been much greater.

We didn't have any electric plant; but if I were doing it again, I would put one in. A very small storage battery, just sufficient to start the engine, is all you need; the generator can be run all the evening. An automatic plant is of course very convenient; but a non-automatic one, which must be started and stopped, is less costly.

I have a 950-watt generator in my own country home; it supplies plenty of current for lighting, ironing, chafing-dish cooking, pumping, etc.; provided we don't try to do everything at once!

The cost of wiring your camp will be from $150 up; a small generator (without storage battery) will cost somewhere about the same.

GAS FOR LIGHTING AND COOKING

Some of my neighbors use carbide gas for cooking and lighting; they say it is very satisfactory. A complete generating outfit, however, isn't necessary; you can buy 'bottled' gas, in big steel tubes. The cost is very moderate, pr you are reasonably near some dis ing point.

Gasoline gas is also entirely pra and is perfectly safe if the gener set a little distance away from the

WINDMILLS AND SUCH TH

In my own country home, I windmill to furnish water; with a electric pump for calm days. Th of the mill and pump, erected about $300; but I bought the best. No doubt you could get a plant for half that price.

Long ago, I used a gasoline for pumping. It cost only abou but Anna didn't like it. 'I'm not to fuss and fret, and crank my a every time you happen to be She announced. So I got the wi Anna says it's a perfect joy!

SAFE SEWAGE DISPOSAL

But above all else, let's take the sewage!

Some years ago, I ran my sew into a cesspool: a 15-foot well, l up, and covered over. It was just top of a river bank; the drainage fine. My artesian well was hig the bank, and some distance Nevertheless, a test by the State Department showed dangerou tamination. I abandoned the ce and put in a septic tank. Imme the well tested entirely pure!

Briefly, a septic tank is just concrete box; the raw sewage ru one end, is dissolved, and runs the other. This liquid, however, highly dangerous; full of every germ. So we lay a network of drain tile—say 300 feet or so— inches under the surface of a fla and let the sewage run into th clean dry earth soaks it up, an fects it perfectly—that's all!

A dozen different concerns w you the material for a septic tan complete instructions for build But if I were you, I wouldn't ta chances—consult your State B Health. I did that—and I'm migh I did.

Now, I hear someone growl, ' sticks! Why, roughing it is the cl camping!'

Very well. Be just as uncom as you want to, old man! But hov your wife—does she like labor a comfort, for the sake of 'roughi

I wonder!

One of the homes where heating by gas is found perfectly practicable and not beyond the moderate purse

Heating Your Home With Gas

Continued from page 474

as a heating medium. In other ls, it is the function of the boiler ass over to the water as much heat ossible.

evitably gas-fired boilers cost more the cheaper types of coal-burning ers—but the high efficiency is worth s a matter of fact, gas-fired boilers be so adjusted that efficiencies over er cent. can be secured, but there is ndesirable feature that accompanies for the gases are cooled down to an extent that the water vapor pro- d in combustion is condensed into r in the chimney, and trickles down lue and into the pipe from the boiler ing a nasty mess. Also, if the chim- is not well built, with tile lining, the r will seep through the brick and rate inside walls, ruining deco- ons. So there is a happy medium in sting a gas-fired boiler, giving a paratively high efficiency with no ctionable features.

CONVERTING THE BOILER ALREADY THERE

may be that you have a new boiler our home—one of the better type— want to burn gas without going to expense of putting in a new gas-fired r, and throwing away your present This brings up the 'conversion ' which is a moot question among engineers. In Baltimore, for in- ce, such heating plants have been se for ten years or more, and have ed very satisfactory, because the cost for fuel is quite low and the installations have been intelligently put in. In New York, on the other hand, conversion jobs are not looked upon with favor, and it might even be difficult to get the utility company to make a gas connection to such a burner. In certain areas where natural gas or a mixture of natural and manufactured gases is sold for heating, at reasonable rates, literally thousands of conversion jobs are found. In the region around Buffalo there are, perhaps, four thousand. In Cincinnati and other Ohio cities, and especially in the great natural gas areas of the Southwest, this class of installation is almost standard. In Chicago, on the other hand, where manufactured gas is being used extensively for house heating, almost every heating plant was built for gas burning.

Conversion jobs can be made to show a reasonably high efficiency (probably much higher than when coal was used in the same boiler) through careful installation. The burner should be so installed that the flame is concentrated around the sides of the combustion chamber, and not much above the grate level. Then the greater part of the space inside of the burner loop should be built up with refractory brick, either loosely laid, or set with proper cement. The gas flame then rises between the boiler walls and the brick, heating the latter by scrubbing along their surfaces. This causes the brick to get very hot, even red hot, (*continued on page 500*)

Since the installation of gas the basement of the house shown above has been turned to good account as a billiard room

Keep Slender, Radiantly Healthy

THIS ENJOYABLE NEW WAY

DIETING or backbreaking exercises no longer necessary! For an ingenious new device, the Battle Creek Health Builder enables you to keep gloriously healthy—pleasingly slender—*without any effort on your part!* The Health Builder gives a combined massage—vibratory treatment, better than a skilled masseur. It vigorously massages the heaviest muscles, peps up sluggish circulation, aids digestion and reduces superfluous weight.

Endorsed by Famous Beauty

Dorothy Knapp, star of Earl Carroll's "Vanities," and proclaimed the "most beautiful girl in the world," uses the Health Builder daily. She says, "I unhesitatingly recommend the Health Builder to everyone that is interested in keeping radiantly healthy and in retaining a beautiful figure."

Used daily in countless private homes, large medical institutions and by numerous physicians in their practice, the Health Builder is a *safe, simple, scientific* method of reducing weight and keeping vigorously healthy.

Send for FREE Book

Send for "Health and Beauty in Fifteen Minutes a Day"—a valuable Free Book showing the Battle Creek Health Builder in operation — *with complete series of home exercises.* Sanitarium Equipment Co., Battle Creek, Mich.

The Battle Creek "SunArc Bath" and "Mechanical Health Horse" are also made by the manufacturers of the famous "Health Builder."

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The Health Builder

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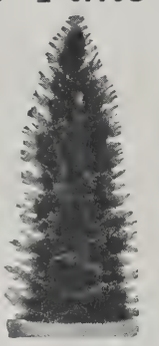
Keeps You Fit

August Is an Excellent Time To Plant Evergreens



Of which we are offering a fine stock, both in cone-bearing trees and Broad-leaved or Flowering Evergreens. Prices greatly reduced to make room for the Saw Mill River Parkway, which is due to cut a wide swath in our Nursery during the next two years.

We are outfitted to do the finest landscape work if we may have a call from you in July while we have time to visit your grounds.

Write for Illustrated Catalogue

S. G. HARRIS - Box A - Tarrytown, N. Y.

RARE BARGAINS FOR FLOWER LOVERS

Iris and Peonies, the King Flowers of the Flower Kingdom at Bargain Prices quoted below, now permits every Flower Lover to add these 2 popular, beautiful, highly colored fragrant varieties to their Garden, to their heart's content without straining their purses.

We have thousands of them from the so-called standard varieties to the rarest, finest produced, grown or developed right here in our own nursery, and sold direct to flower lovers at prices never before offered and the quality can't be beat anywhere.

IRIS BARGAINS

25 CHOICE VARIETIES $1.35

Surprise collection 25 choice varieties, not labeled, wonderful assortment colors, all different, called surprise collection because it will surprise you. Postpaid, $1.35. If ordered before Sept. 15th we will include a **special 50c variety Free.**

17 FINE VARIETIES $2.50

Kinds that sell usually from 25c to 50c each which means some of the rarest and finest grown, all natural, all different, colors unequalled by the Rainbow, collection easily worth $5, our special price, $2.50 postpaid and one Famous **Mother-of-Pearl Iris, FREE.**

12 FINEST VARIETIES $4.85

Most popular and finest varieties of the Iris Family such as Ambassador, Ballarine, Souv. De Madam Gaudichau, each properly labeled, regular price 35c to $1 each, collection easily worth $7.35, our special price **$4.85 postpaid.**

free Complete Catalog—of Iris and Peonies containing full description of these Bargain Collections and other unusual Bargains of all the most famous varieties grown. Hundreds of rare varieties listed with their ratings, also other special prices on Tulips, Gladioli, Phlox, Perennials, etc. Don't overlook the free Iris and Peonies that we are offering with most of the collections in this advertisement, which makes these Bargains the greatest we ever offered—by far the best offered by anyone.

PEONY BARGAINS

6 Wonderful Peonies $2.00

Our selection, 6 dependable varieties. Extra large divisions. Two red, two white, two pink, each correctly labeled, the six for $2.00 postpaid and if you order before September 15th, you get a **Richardson's Rubra Superba,** worth $1.00, **FREE.**

3 Famous Varieties $3.00

Highly rated famous varieties Red, Pink, White, easily worth $4.50, our special price postpaid $3.00 and a **Chestine Gowdy,** worth $1.50 **FREE** with orders before September 15th.

10 Good Varieties $7.50

Highly rated, correctly labeled, good varieties of colors, crimsons, pinks, bright reds, dark reds, etc. Collection usually sells for $11.00 our special price **$7.50 postpaid.**

PFEIFFER NURSERY
Winona DEPT. 120 Minnesota

In the Heart of the Cactus Country

Within a radius of one hundred miles of El Paso there grow more varieties of Desert Plants than anywhere else in the country. Cacti are among the most interesting of them all, and we have specialized in them for years. We also import from Mexico and other parts of the world, and can offer you the most comprehensive collection for all purposes.

Potter's Plants Are Correctly Named

Careful selection of good specimens, properly labeled and carefully packed to arrive safely anywhere, should make Potter service attractive to the more exacting type of gardeners.

Please send for illustrated circular giving varieties, sizes and prices of all we offer. Correspondence invited from all interested in Cactus and other Desert Plants.

POTTER FLORAL CO.
302 No. Mesa Ave. El Paso, Texas

A Friendly Little Informal Garden

Continued from page 480

PLAN INDEX

Quantity	Variety	Plan No.
6	Grape Vines	Φ
9	Spiraea vanhouttei	A
5	Spirea Anthony Waterer	B
5	Forsythia intermedia	C
4	Lonicera tatarica	D
4	Mockorange	E
3	Ninebark	F
4	White Kerria	G
4	Deutzia rosea plena	H
10	Thunberg Barberry	J
3	Japanese Quince, Pink	K
2	Deutzia lemoinei	L
1	Pfitzer Juniper	W
7	Paeonies	O
70	German Iris in 7 varieties	—

PLANTING BY SHRUB WALK

100	Daffodils in 10 varieties in 10 groups	N
100	Crocus in groups of 10	T
100	Grape Hyacinths, 25 in a group	R
100	Scilla sibirica, 50 in a group	S
65	Forget-me-nots	M
50	Polyanthus	P
50	Ferns	+
6	Plantain-lily (Funkia subcordata)	1
3	do. do. (F. lanceolata)	2
25	Dutchman's-breeches, 1 group	3
10	Anemone, 1 group	4
10	Hepatica, 1 group	5
10	Canadian Columbines, 1 group	6
25	Spring Beauties, 1 group	7
25	Mertensia virginica, 2 groups	8
50	Lily-of-the-valley, 1 group	9

PLANTS FOR HARDY BORDER

6	Hollyhocks	10
12	Sweet William	11
8	Japanese Iris	12
6	White Phlox	13
6	Hardy Asters	14
6	Peachbell Campanula	15
12	Hardy Pinks	16
10	Forget-me-nots	17
12	Hybrid Columbines	18
6	Golden Tuft	19
6	Veronica spicata	20
6	Veronica longifolia subsessilis	21
6	Polemonium reptans	22
6	Pink Phlox	23
12	Helenium rubrum	24
12	Boltonia latisquama	
12	Valerian officinalis alba	
3	Perennial Candytuft	
6	Delphiniums	
6	Hemerocallis flava	
3	Beebalm Cambridge Scarlet	
3	Hardy Chrysanthemums	
3	Phlox Miss Lingard	

LIST OF MATERIALS AND COST

400	Bulbs	$
574	Perennials	
43	Shrubs	
10	Barberry	
2	Bechtel Crab	
3	Lilacs	
1	Weeping Cherry	
2	Dogwood	
2	Silver Maples	
1	Linden	
3	Climbing Roses	
6	Grape Vines	
1	Pfitzer Juniper	
190	Privet for hedge	
1½	bu. Grass Seed	
100	lbs. Bonemeal	
4	lds. Manure	
1	Bench	
1	Bird Bath	
50	Flagstones 18 inch	
	Labor	
		$

MATERIAL FOR GRAPE ARBO

10	6-in. cedar posts 10 ft. long	$
54ft.	of 4-in. cedar poles for girders	
13	2-inch cross poles 7 ft. long	
3	bags of cement	
		$

FENCING

15ft.	fence for Kitchen yard, 6 ft. 6 in. high at $2.10 a foot	$
1	Gate for same, 5 ft. high	
68ft.	picket fence 3 feet high for front	
		$
	TOTAL	$

Heating Your Home With Gas

Continued from page 499

and they give off radiant heat just as would a bed of glowing coal, thus furnishing to the boiler a great deal of heat *in the same form* that it is furnished when coal is burned.

It hardly seems necessary to say that all gas-fired heating plants are, or should be, thermostatically controlled. That simply means that gas is fed to the burner through the functioning of a thermostat, located in the living room or dining room of the home. If you want to maintain a temperature of 70°, the thermostat indicator is set at that figure. If gas is burning under the boiler, the house will heat up to 71°, at which time the thermostat will close an electrical contact, causing the gas valve at the burner to close. The flame will go out immediately—all but a small 'pilot' flame. The house starts to cool, and when the temperature has dropped to 69°, the thermostat will act again, this time opening the gas valve. The pilot flame will ignite the gas, and the operation will be repeated, day after day, through the entire heating season.

One objectionable feature of the earlier oil burners was the noise of combustion and of the mechanism. Burners to-day are much quiete those even of two or three yea but the gas-fired boiler reach ultimate and can be said to be no

The cost of gas for heating var as the cost of coal or oil varies. are heated with coal dug on the owner's property. Oil burners ar with oil drawn from a 'well' dr the back yard. Gas is so cheap i sections that street lights are lef ing all day as it costs too much them out and light them again. there are factors, other than the a thousand cubic feet of gas, tha be taken into consideration.

If you build a home, by all insulate it, regardless of the fu expect to use. Put in storm wi at least on the sides exposed to p ing winter winds. These refinem construction may reduce you losses 20 to 40 per cent. That m corresponding decrease in the qu of fuel required to heat the house ing at it this way, gas at $1.00 a th may be too rich for your blood home is of ordinary construction you insulate, and protect your wi and save one- (*continued on pa*

TILE-SETTING is a true craft, requiring a high degree of skill and workmanship. A competent job of tile-setting will give you results of enduring beauty.

In your community there is an experienced tiler, who can show you the different types of keramic tiles, make practical suggestions, and see that your tile job is efficiently and skillfully handled. If you wish to get in touch with him—write to us and we will gladly assist you in doing so. *Associated Tile Manufacturers.*

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THE NATIONAL GARDEN ASSOCIATION
DEPT. G37, GARDEN CITY, NEW YORK

Building Your Own Log Cabin

Continued from page 455

ed by a less steep roof. This ll be planned before you raise the r the gable ends. Don't try to ne roof till your fireplace chimney n raised above it.

t worry about cutting away for nd windows in the early stages of g, except to cut away enough of (which will mark the top of window) to later admit a saw. having clearly marked where nt your openings (and at least ase of windows determine before- xactly the size of the sashes the going to provide—or better still, ne sashes on the ground before openings) and having tested plumb line to make sure open- e vertical, nail cleats outside the be cut out.

oss-cut saw in the hands of two ill facilitate this cutting. The will hold the ends of the logs in ntil you put in the permanent for door jambs, window frames, ework over fireplace. Then knock ts and fit in your windows and Buy your windows ready-made mill; make your own doors of ttern that appeals to you. A and appropriate door is made by ng two (at most three) horizontal against the right number of boards. Cover the door with s if you wish 'decoration.'

r joists, probably logs, have been notched into the sill or tion logs. The top surface of oints must be even, or be made so ing them with an axe. Making oring is simply a matter of nail- tly fitting boards to these joints; er, when the rest of the cabin is d, putting on a second upper layer ing. Warmth is gained by putting gpaper between the two floorings. oards of the sub-floor should be an oblique angle. Of course your ists do not have to be logs; 2 x 8 are simpler, if not quite as sub- i (see figure C).

gs—even when scored to a level —seldom fit snugly, chinking be- the logs is almost always neces- Clay, moss, cement—any number erials for this may be practicable; ggestion would be to chink origi- with cement, let the logs dry ghly and shrink all they are going n in a year or two knock out the and chink more permanently akum underneath small quarter- timbers, or very small unsawed see figure D).

The partition inside the cabin can be made of ordinary boards nailed to a framework of 2 x 4's; I cannot too strongly urge that swinging windows be put in this partition, at least where it forms the larger bedroom. (These are not shown in floor plan, figure B). This will help give the atmosphere of a porch to this bedroom in case you fit it with many wide windows, and use day beds instead of usual bedroom furniture in it. In case the cabin is built on a hillside I advise modifying the plan in order to have more bedroom space. Then this large bedroom space will be used more for a porch than for sleeping quarters *per se;* and two more bedrooms will be created by putting a partial under-story in the lower end of the cabin. The insides of these lower bedrooms are of simple framework; bedrooms in a summer cabin are so little used for purposes other than sleeping that a maximum of sleeping space with a minimum of work and materials put into its construction is a good aim.

We have not room in the present article to treat in detail of the fireplace, but a sketch is appended for general guidance (see figure E). A few principles should be remembered, however. Contrary to general statements on the subject, which assume that the area of the flue passage should be 10 per cent. of the area of the fireplace opening, remember that *if your flue is less than 30 feet high the area of the flue passage should be between 15 and 20 per cent. of the area of the fireplace opening;* the width of the fireplace opening should be greater than its height; the back of the fireplace should not slant toward the neck until at least one third of the back wall has been raised vertically.

I think that most people do not recognize the advantages offered by the U. S. Forest Service to those who wish to build within National forests. For those who wish more or less seclusion a site in a National forest is exactly what they need. Permit for site may be obtained for an indefinite term of years, or for a fixed term of years up to thirty, with privilege of renewal, for a 'rental' charge of from $5 to $25 a year. You can usually get a permit to cut necessary cabin timber near your site, or the Supervisor can furnish you with names of people who will supply the logs at rates ranging, at least in the West, from six to ten cents a running foot. Assuming that unusually small logs are not used, the cabin we have been talking about should not require more than 1500 feet.

Your Garden in the South

Continued from page 493

ding and Starting New Plants

ets, Carnations, Forget-me-nots, me other small plants that put nners can be divided now, when und is moist and warm, and with care will make new plants. Dig Violets, shake off the earth, the plants in small pieces, each some rootlets, and replant. While olets are out of the ground it be well spaded and plenty of anure added. Violets are not killed, so manure too fresh for lants may be used in this bed. ding Carnations, or any of the is done by pinching off the new clipping off the leaves to half their length, and sticking these new pieces in sharp sand which must not be allowed to dry out at any time. Little branches of Forget-me-nots, having half a dozen leaves will do to start new plants by picking off all but one pair of leaves, and burying the stem either in moist sand in the sun, or in damp earth in the shade. Forget-me-nots prefer the north side of the house so that only the early morning sun reaches them, but failing a good bed on the north side, try planting them under the edge of the house if it is raised on pillars, or under the steps, an arbor, a bush, or a tree—anywhere where there is not too much sun and where the ground stays moist.

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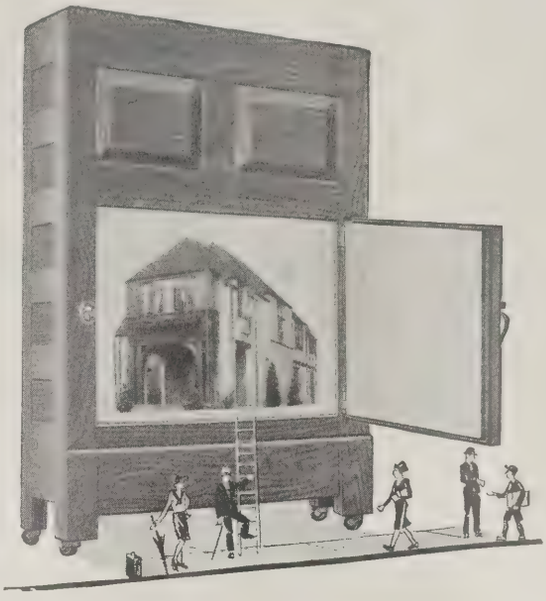

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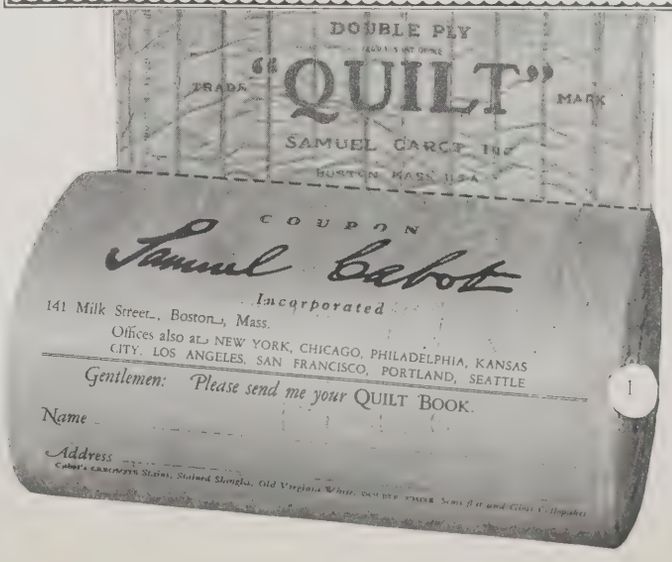

HEARTHSTONE EDITOR'S CHAT

This department is for every one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. Its purpose is to bring to each homemaker all the aid and advice so freely offered by the business world to-day. Booklets (see next page) may be had upon request. Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

Our Dinner Tables

WHERE is the woman, man, or child who does not react to the beauty and charm of a well equipped, well laid lovely dining table, whether it be for breakfast, luncheon, or dinner? We meet, the most of us, around our dining tables three times a day, spending at least three of our waking hours in the company of our silver, pewter, glass, china, and linen belongings. If health and good digestion wait upon appetite then do both depend in great part on the attractiveness of the table and its equipment and we would change an old and loved saying to read: 'Better a salad, a pot of coffee, and a sandwich on the carefully, colorfully arranged table than a stalled ox on one poorly equipped!' There would be greater happiness and greater appetite.

In this matter of equipment we find linens a first consideration and here the choice is limitless. Fortunately, for mere man, the fashion of doilies and two-by-four luncheon sets has gone the way of most useless fashions. Instead we have luncheon cloths, 54 and 60 inches square, wide enough to completely cover the table; and the napkins have grown, too, so that a man feels a sense of substance as he sits at breakfast or luncheon table. These sets are fitted to every color plan and to every purse. They may be had for almost negligible sums in a heavy linen that launders well, the varieties ranging from this very attractive grade up to the imported handmade sets.

To accompany these linens are the new dishes so lovely, so full of good design and color, so unusual as to shape that it is all but impossible to describe them. Imported from Holland, Spain, Italy, France, Czecho-Slovakia, Sweden, they hold all the quaint atmosphere of these native potteries coupled with a low price that is astonishing. One set from Spain was of thick, crinkly ware that suggested majolica. It was a faint yellow-green in color with an all-over indistinct design and sold for $7.50! Still another set came from Holland of a rich dull creamy color that suggested Gouda cheese. On this was a well-done floral motif in deep blues and green, a set of 30 pieces for less than five dollars! Ten dollars will buy very attractive sets and as one visualizes the shiploads of tourists with their trunks packed with pottery from Quimper, Rouen, Delft, one can but wonder why all this trouble and risk of broken dishes was taken when the same ware could be bought at home.

To accompany this pottery that may be found both subdued or rich in coloring as desired, is the glassware from these same countries. Glassware because of risk of breakage does come higher if imported but who would not forego some other purchase in order to secure tall thick almost opaque glasses in an opalescent tan, cream, replicas of Spanish glass, these tall glasses unusual for tea or lemonade and that cost only 64 cents each!

From our own craftsmen comes glassware in the loveliest clear tones and combinations of colors. Crystal glassware finely etched there is that seems like a collection of jewels as the ligh from candles shines on it. And not merely drinking glasses, bu glass cups and saucers (a spoon in the cup keeping it from crac ing), glass soup plates, and the well-known salad plates. All these may be had in clear crystal and many of them in colo For the simple family table where the childre are apt to upset and break glassware, real lovely things in both shape and color ma be had for 10 cents each—sherbets, goblet lemonade glasses and glasses for fruit coc tails in delicate shades of every color ar often with two colors carefully combined.

And now we come to the unbreakable, du able table fittings that do so much to ad dignity and richness to one's table; plate silver, pewter and sterling ware. Once 'plate silver' was not mentioned by the housewif It was the orphan child of the table; to-day is an honored guest for it is as carefully d signed as solid silver and so made as to gi long years of service. We all love solid silve but how many homemakers are there who c have a complete table service of it? Few i deed and to all such women comes the ne plated ware so lovely as not only to mix pe fectly on her table with her sterling ware, but actually to called plated and that with pride. Meat platters, double veg table dishes, tea and coffee services are there to make tabl dignified and beautiful.

As to pewter, breathes there a housewife with soul so de as not to value and long for the new pewter? Practically untar ishable due to the new mixture of metals, pewter has recaptur its place on the table. Cheek by jowl with solid silver forks a knives, the little pewter bread-and-butter plates do not suff by comparison. It is as easily kept clean as silver and so love that a well-known and very old silver-making house not only h turned its wealth of precedent and design to the making of pe ter but also manufactures a pewter paste to keep it clean. Mo over, they display this pewter along with their sterling wa silver that has been famous for a century. Some of the loveli odd dishes shown this year have been of hand-wrought pew by famous artisans who have signed their compotières and bre trays, and their bowls quite as a painter signs his canvases.

Of the solid silver, the new designs hold all the beauty ev put into precious metals. It seems as though the hands of t modern silversmith held all the accumulated skill of the ag One particularly pleasing design (or, rather, it is pleasing becau of lack of all design) is that flat ware which is a copy of bo French and English antique ware. The tapering slender hands of these knives, forks, and spoons curve up over the hand that in holding them, one's hand is always in a graceful positio There is absolutely no mark of any kind on their handles, tracery to become soiled with time, nothing but the beauty u adorned of plain solid silver, a style that will always please.

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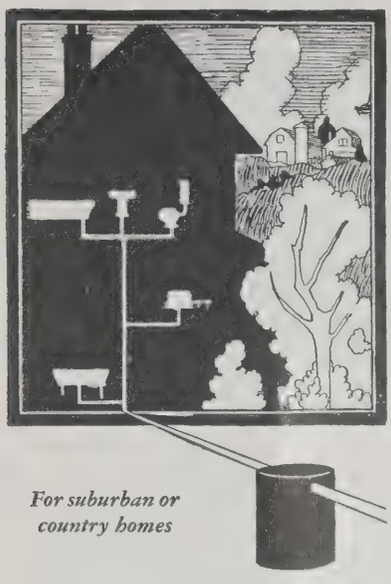

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Metals that Add a Finishing Touch

Continued from page 469

the S shape, the black outline of which, silhouetted against white paint or stucco, is very effective.

If you would have your Colonial hardware true to type, shun reproductions which are unnecessarily massive. This does not apply to bolts and the like, but such pieces as thumb latch handles which are not required to withstand any great strain. Though the rest of the hardware on the front door be black iron, the knocker may be and was more usually brass, the eagle and Grecian urn in its many variations being the most favored designs of which good reproductions are readily obtainable.

Much of the Colonial hardware is similar to the early English and is, therefore, equally appropriate for such a cottage. In England we find that occasionally it was embellished with simple incised patterns, such as could be done with hammer and chisel. On the oak of the English house the hardware is more effective when finished with a half polish rather than the black, and an iron knocker of the ring type on the front door has a sturdy look in keeping with the dark woodwork.

In lighting fixtures, it is hard to improve upon the old forms which have been adapted to modern use. To light the front door, are lanterns in many interesting designs, made of either brass or iron, but to give good service the metal must be of a substantial gauge. If an iron lantern is used, even though it has been rustproofed, it is a wise precaution to keep it well painted, especially at the seashore. Lanterns are also suitable for hall or sunporch. Modifications of the old sperm oil lamps and candle holders, are most attractive for side lights.

Of course, no country home, however small, is complete without an open fireplace. What can compare with a blazing log fire as a refuge on a rainy day or as a rendezvous for family and friends on cool evenings and around which the young folks can gather to make popcorn, toast marshmallows, and enjoy similar delights. No modern heating system, however efficient, can take its place.

Andirons should not be regarded as merely something on which to rest the logs, even though that is their primary purpose. Their decorative value is considerable or at least can be made so, and as much care and thought should be given to their selection as to other furnishings. It is impossible to lay down any fast rule as to height, but two thirds that of the opening can be taken as a general guide.

A pronged fork of good length, but not so heavy that it cannot be used by the womenfolk without undue exertion, will be found a most useful tool. The old peels with which the New England housewives used to draw the loaves of bread from the brick ovens, make excellent shovels and if you do not want to give room to a stand, a pair of strong iron or brass jamp hooks, screwed up on each side of the fireplace will hold these pieces conveniently in place. An iron chimney-crane with pot hook on which to hang pan or kettle, gives a flavor of olden days and is sometimes useful as well as ornamental.

The difficulty of decorating the walls of the sunporch may be well solved by hanging wrought-iron pockets to hold trailing English ivy. Iron trivets, about 18 inches high, on which to rest painted tubs for plants and ferns, will be found very useful indeed.

A delightful outdoor touch may be added by an iron weathervane and why not indulge in an amusing informality by installing one of the many attractive modern designs in black silhouette: a ship, flying geese, a golfer?

Where a mailbox is required, let it, of course, be a good looking one, in either brass or iron.

Summertime Furnishings and Equipment

Continued from page 461

mohairs, rep, and monk's cloth are appropriate fabrics.

Strong color in the curtains and cushions will add the note of gaiety required to redeem the simplicity of the furniture.

In the usual camp, the floors are of natural wood, and removable rugs (which can be easily stored away or left upon the floor during the winter) supply whatever floor covering is needed. There are many fibre rugs of attractive weave, color, and design, which prove practical and decorative. When gaiety of color is desired the Mozourk fibre reversible rug offers many attractive patterns.

The influence of modern expression is seen in the stick willow and reed designs which are so colorful and pleasing for summer use. For the more pretentious seashore camps this furniture is especially appropriate. An amusing and useful article is the chair designed by Mary Nowitsky. It is collapsible and in addition is constructed of bamboo which has very little weight. The arms, the adjustable back, and the seat, are of striped canvas of any color. It is surprising how much comfort this chair offers. (Reproduction price $14.50.)

Another portable article is the folding card table which folds up in the form of a light suitcase. It comes with four small matching metal chairs covered in canvas. (Price $25.00.)

For the beach stroller who becomes fatigued there is the new beach rug slightly padded, of fabricoid with a pillow at one end. This can be rolled up, strapped and carried under the arm. (Price $11.) Of similar material is a long narrow pillow which folds and straps over. When unrolled this will accommodate three persons. (Price $3.95.)

When your quarters are small (and whose aren't?) a practical piece of furniture will be the dinette. When you see this attractive table standing against the wall, you never suspect the amazing usefulness it conceals. Roll it away from the wall, swing out the gate until it rests upon the leg and you have a dining table that will accommodate four persons. Disclosed is a fully equipped kitchenette with a double electric outlet permitting the use of two electrical appliances. A grill, a coffee percolator and a toaster provide ample facilities for preparing a complete meal. The porcelain base or lining of the dinette may be removed and easily cleaned. Additional working space is provided by the drop shelf and the drawer will hold silver, linen and china.

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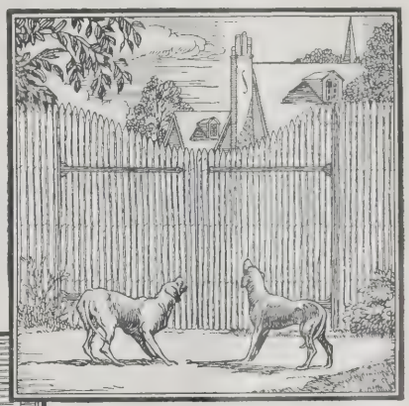

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SHOP WINDOWS OF MAYFAIR

By Shirley Paine

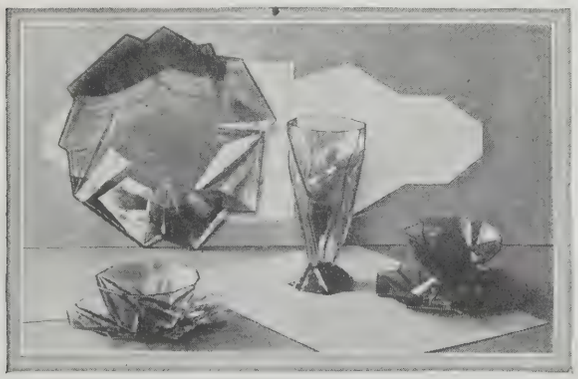
This is your department, please feel free to use it early and often. The more things you buy through Shop Windows of Mayfair, the more things we can show here. Each article has been chosen because of value, smartness, or usefulness. Our Board of Censors is active, and everything on these pages had to receive a unanimous vote before being shown to you. Make checks payable to Shirley Paine, care Doubleday, Doran & Company, Inc., 244 Madison Avenue, New York. Write her, enclosing check for the article you wish, and she does the rest. This service is entirely without charge.

Kindling fires is something of a nuisance, and lighters of the usual kerosene-burning type are sometimes a bit smelly. The Dixie Fire Kindler has a cast iron Gypsy pot container, lights easily, is not dangerous, burns for five minutes with flame sufficient to kindle a good-sized log. It adds a Colonial touch to the hearth. Gypsy pot is $3; carton with 240 lumps of kindling material, $7. Postpaid 100 miles N. Y.

On open cars this year a running board searchlight is not only smart because of the added decoration to a fine car, but because wise drivers know that an extra lamp with power enough to light up the roadside is a safety factor to avoid glare and still see dangerous places when passing other cars. Accurate reflectors give a powerful beam far ahead, the chromium plate never needs polish; does not rain spot; turns easily; finest construction. Model at left, $37.50; at right, $45

This wrought iron magazine lamp, while not entirely new, is still the best thing of its kind, especially for summer verandas where a lamp must not tip over easily. The two wrought iron trays add a convenient touch for smoking things, while the patented magazine rack attachment is a boon to every reader. Finish in weatherproof duco: green, red, black with gold trim, parchment. Special colors to match scheme, $1.50 extra. Complete special price with imported pleated shade to match, $15. Without shade, $14.50. Futuristic chicken for colored matches and ashes $2.50

Nothing is more stunning, nothing mo effective than ruby glass goblets, but order to have permanence and char the glass must be of best quality, t design authentic, the workmanship pe fect. These three requisites are well m by this design by Briggs of Boston. is of lovely Venetian glass, delightf in shade, and of fine craftsmanshi Price $55 doz. prepaid 100 miles Bost



Something entirely new in modern table glass, exclusive with New York's most famous gift shop, of weird smoky color and so ultra-smart that it is as new as to-morrow's newspaper. This glass is not a mass production item, but is made of finest materials, carefully molded and finished. There is nothing else like it and the name is *Ruba Rombic*. Price, salads, $48 doz., sherbets, $30 doz., finger bowls, $20 doz., finger bowl plates, $40 doz., goblets, $30 doz. Postpaid 150 miles N.Y.

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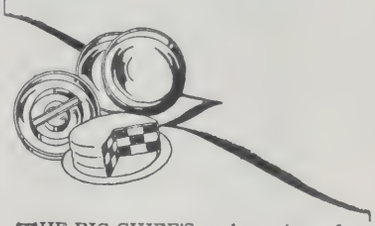
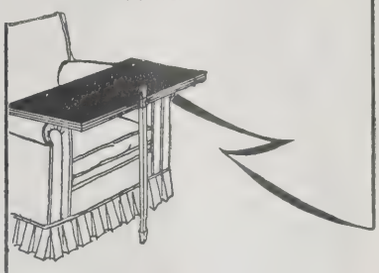


THE BIG CHIEF'S weakness (one of them) is—cake. So I treated him to a checkerboard cake the other night. Made it with the new Checkerboard Cake Set. Its double ringed affair goes inside the cake pan, holds alternate light and dark batter. Set—Ring, 3 pans and full directions, $1.75.



I USE the Solitaire Table mostly on the porch these warm days. It fits handily across the arms of a chair. Or sometimes I hold it on my lap. One side is hard—fine for writing or sewing. The other side is padded soft—for cards. The top is 30" x 18". The solitary leg folds up when not needed. These little tables come in green, scarlet and mahogany finish. (Mine is the green). $7.50

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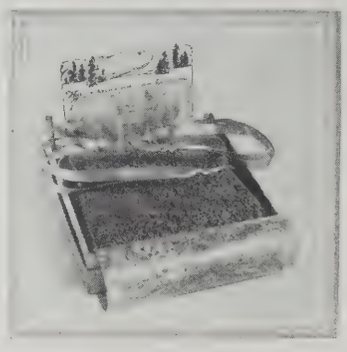

Nothing is more charming or has more fragrant memories than real English lavender to scatter among precious things, whether they are put away for the summer or are in active use. It is especially nice to find lavender daintily boxed for a gift or bridge prize with a rather charming bit of verse enclosed on a dainty card. The container is of violet chiffon. Complete, 75 cents. Checks to Shirley Paine

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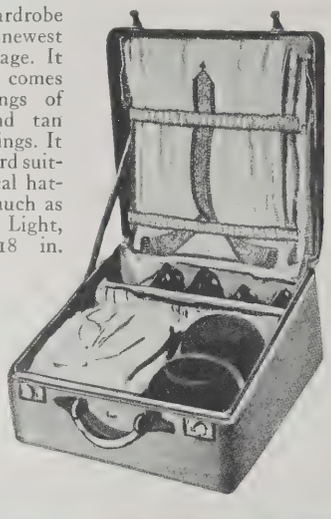

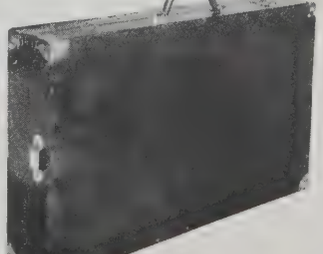

Can you imagine an auto table for picnics that folds up with the four chairs into a traveling case $27\frac{1}{2}$ in. long, $15\frac{1}{2}$ in. high, and 5 in. wide! The top folds in on itself, making a swanky carrying case with handle; when unpacked there is no extra case to bother about. The chairs are canvas (green with yellow and red stripes) on rust-proof metal frames. An ideal outfit for picnics, for bridge on a terrace, for the cottage veranda. The price is $25 prepaid anywhere in the world. Checks to Shirley Paine

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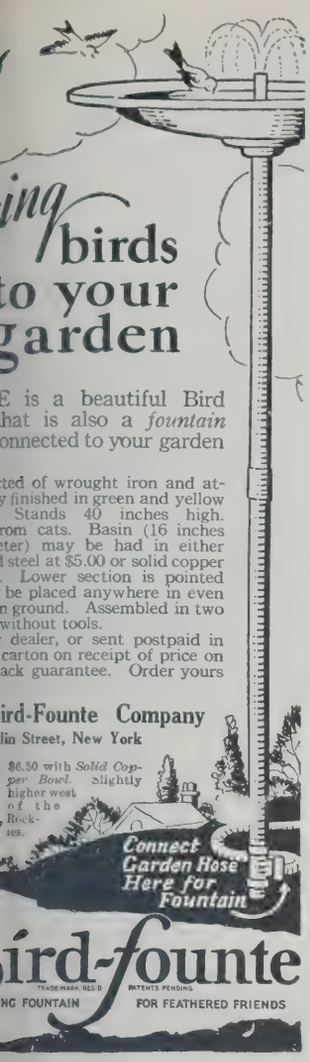

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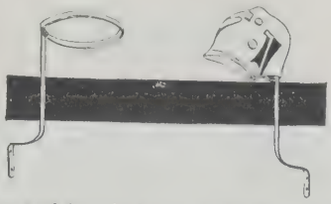


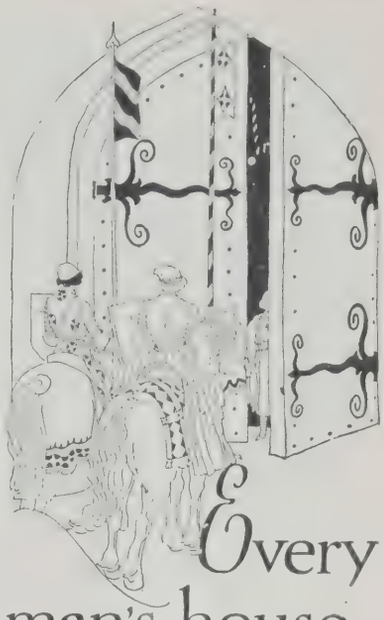
Another thought from one of America's finest household supply stores—hat holders. These are little bronzed rings that fasten to closet walls. They do not take up shelf space like the usual hat stands. They hold hats out and away from the wall; keep them from getting out of shape. Especially good for men's hats. Only $1 for set of three; prepaid 100 miles N. Y.

These are the most charming and original summer pillows that I have seen. They are of fine unbleached muslin with flower designs appliquéd in bright calicoes, and piped in red around the edges. They are 15 x 16 in., filled with silk floss, and hand made throughout. Choice rose, iris, jonquil, and tulip. Price $9 each, delivered 100 miles N.Y.

And now something for the youngest lady of the house—an imported doll unlike any other doll. It is 28 in. tall and has a tiny phonograph concealed in the body which makes her sing, talk, recite, or pray. She has closing eyes, eyelashes, and ringlets of real hair. Price $40 postpaid 100 miles N.Y. Extra records 50 cents each

These two Normandy beechwood chairs are exceptional finds. Rush seats are unusually fine, and the conventional flower panel design in the back is nicely hand-carved. Nothing better for the provincial dining room. Armchair, $29.50; side, $22.50. No crating charge. A fine catalogue also

For sports wear generally, homespuns have never been smarter than now. Skirts are woven and made to order at sane prices by the famous Homespun Department of the North Bennet Street Industrial School, who also made the Colonial wall sconces shown here recently. They have engaged talented old-country weavers to make the now famous Copps Hill homespun. Materials and patterns are available for those wishing to embroider their own, or finished orders may be taken. Send for cuttings and catalogues of these fascinating weaves which rival the best in Europe



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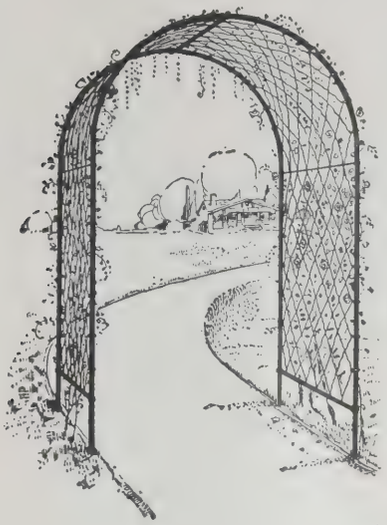

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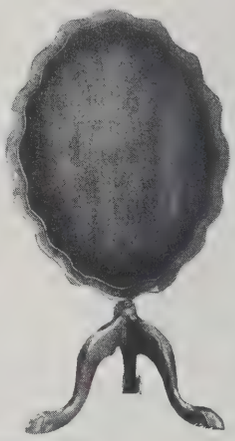
My advice on *l'art moderne* is 'watch your step.' Everyone seems to be turning out what he considers art in this line. This stunning little wrought iron candle holder has simple and pleasing lines to express the present trend. Frame and sockets are *verde* green, the horse black. Base 11 in. long, 7 in. high. Price $8. Postage collect

A short time ago we showed these black playing cards in editorial sections and the response was instant and overwhelming; from Maine to Mexico bridge players came in for these attractive, non-revoke black cards with their scarlet, yellow, and green spots. Red and blue backs. Gilt edge $1.50; plain edge, $1. Postpaid in U.S.A.

All sorts of 'reproductions' confront the furniture buyer these days. One type is made by the thousand in the general style of the period imitated; the other type is made by talented cabinetmakers faithfully reproduced in design, wood, and quality of workmanship, from famous museum pieces. This Chippendale tip-top table is of close-grained solid mahogany; oval top with pie crust edge, hand-carved legs with typical ball-and-claw feet. Size 30 x 20 by 30 in. high. $49.50, freight paid in America



Here's something unusual for the man of the family—a dressing gown of wonderful linen, cool in summer, stylish any time, and if it becomes stained from salt water, can be easily washed. There is a smart-figured pattern with a choice of tan, brown, blue, or rose for background. Linen lining and cuffs in contrasting colors also. Quite the newest thing with the fine Fifth Avenue Shop showing it. Best news of all the price is only $25 prepaid anywhere in the world! They guarantee a perfect fit, and just need height and weight to choose correct size and length. Checks to Shirley Paine

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Cactus for Fancier and Amateur

Continued from page 483

succulents and desert plants make a garden that has both charm and local color. And best of all, it can be left for months at a time without suffering any ill effects.

The Easterner who wishes to have Cactus in his garden or greenhouse must simply reproduce as far as possible, the conditions these curious plants prefer: namely, a dry, gravelly soil, not over much water, sun and protection from extreme cold.

There is a deal of fun awaiting gardeners who will arrange a 'patio' or outdoor living room with a wall on the north side, in summer an awning when desirable, and in winter a temporary protection of greenhouse sash. With no extra heat such a winter garden would be sufficient refuge for many tender plants—Cactus among them, while in the summer they would be on the same footing with their hardier neighbors.

Among the sorts which afford much diversion to the amateur are the Rattail Cactus (Aporocactus flagelliformis). I have seen this grafted and trained into extraordinary forms, grafted on one of the columnar type and grown in the form of an umbrella, which when the small rose-colored flowers are abloom is exceedingly effective and has its charm for folk who like horticultural curios.

Nyctocereus serpentinus can be trained to go up the wall of a house, following the line of the chimney like a long green serpent. Its flowers are nocturnal, white, and very fragrant.

A curious little Cactus which the smallest window-garden can hold is the Living Rock (Ariocarpus fissuratus); this little species, about 5 inches in diameter, is covered with triangular tubercles and the flowers are white, touched with rose. Good for outdoor planting, or for a conservatory is a rather stately Cactus, a futuristic looking plant some 6 feet in height with a few erect branches —erect as those of a Candlestick Cereus (C. spachianus). Very attractive, and curious too is Echinocereus enneacanthus which, when in bloom is almost covered with flowers of a lovely color. Echinocereus caespitosus is a rather cylindrical form with clusters of white spines, regularly set up and down, making ribs on the plant and a gorgeous blossom of reddish purple, so large, some times, in proportion to the Cactus that bears it that it looks like a large blossom set in a vase so small that it might upset.

Interesting in this group of Echinocereus is the Rainbow Cactus (E. rigidissimus) cylindrical in form, with spines so colored that the effect is of rainbow bands running horizontally around the plant. There is E. engelmanni, a variety with most formidable spines but striking flowers. Among the Echinocactus which are good for the amateur's garden are the Fishhook Cactus (E. setispinus) whose flowers are of a clear golden yellow—and sometimes they are scarlet. There is Echinocactus texensis which looks like a large sea-urchin which had turned in to a desert plant, the flowers are scarlet above and paler underneath and appear in a crown on the top. E. viridescens, like a huge Desert Pincushion stuck extremely full of pins, point out—but it's decorative in the garden. E. horizonthalonius and lecontei are attractive forms, the first grayish green — somewhat the color of the foliage of the Poppy contrasts beautifully with the rose-colored flowers, the latter with long hooked curving vindictive-looking spines borne at each point of its globular person.

The Opuntias are attractive both in flower and fruit. The Indian Fig type is by far the safest. This has oval or flattened joints and the true Chollas are, to anyone who has experienced their spines, unfit for human society. The Beaver Tail Cactus (Opuntia basilaris) is a beauty with its curious brilliant rose-colored flower, flattened as if clasped by the leaf, squeezed from a natural roundness. Then there is the Deer-horn Cactus, a slender, many-branched Opuntia of the palest gray-green and blest with small, clear-yellow flowers.

These are a few of a genus still very little understood, somewhat worried by a conflicting and diverse nomenclature. There is ample room among the Cactus for experiment and study and it usually happens as with your real rosarian, once the interest is aroused, the collecting begun, nothing but death or a cataclysm of nature will end it.

Making a Cactus Garden

Continued from page 481

the stucco walls of Spanish type houses in our Southwest.

Of course, species listed in Section 1 can be used to advantage with those in Section 2, and those listed in Section 2 can be used for the extended garden. In fact, their use will add greater variety and interest to the ground cover, not furnished by most of the tall tree types.

A Cactus garden will prove of more interest if one introduces Agaves Aloes, Yuccas, and succulents such as Sempervivums, Gasterias, and Sedums.

There are several large nurseries that specialize in Cactus and related desert plants, and care has been taken in preparing the planting list not to include varieties that are not in commerce.

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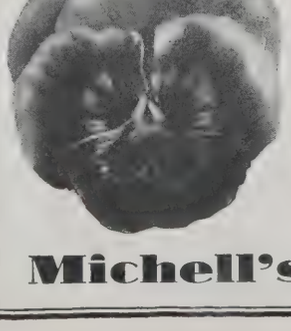

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Tall Bearded Iris

Continued from page 471

well with spring planting. After they have gone through the rigors of winter it is best to leave them undisturbed until after they are through blooming. Then it is well to wait until substantial side shoots have been produced and have established their own root systems. The flowering stalk never blooms a second time and it is these new side shoots that are the new flowering plants. By July or August these new shoots have usually produced strong, young, healthy, new plants that can readily be divided from the parent plant, and they produce the finest possible results.

How often Iris should be divided and replanted is a matter largely to be decided by the individual grower. So much depends upon soil, location, distance apart and so many other things that no definite rule can be given. In a general way it is safe to say that they should usually be divided about every three years. But then again some varieties will do well in one location for four or five years, whereas some other varieties are best transplanted every second year. I should like to be more specific by giving illustrations and mentioning varieties, but it would make this article too lengthy. There is really no hard and fast rule to go by and here again, as in other gardening matters, individual judgment and experience must be the guide.

When Bearded Iris are set out late in the fall, or in fact any time after the first of September, it is well to cover them lightly the first winter with some coarse trash, not for protection from frost, but to prevent them from being thrown out of the ground by alternate freezing and thawing during the winter months. Otherwise one may find the plants in the spring on the top of the ground instead of finding them planted IN the ground. This will often result in losing many varieties that are not as hardy as nails and are therefore unable to stand abuse to the extent that some other varieties will stand it. After the first winter of course no covering is necessary and in fact it will not be necessary the first winter if the plants are set out during July or August. The idea of the covering is to keep the plants frozen in the ground over winter. The covering should not be removed in the spring until the frost is well out o ground. If left on too late in the s after the ground under the coverin become soft and muddy it may root rot. If removed too early the s frosts and thaws are still likely to t the plants out of the ground.

While much has been said and wr about the Iris being a drought l plant, experience has convinced me the point has been over-empha Continual, excessive moisture is lik induce root rot, especially if the p are too crowded, or if the rhiz are covered with earth, or surrou with withered leaves or trash, inste being exposed to the sun as they sh be, or if the soil is sour; but ev camel, and an Iris, must have a ce amount of moisture to thrive. Whe plants are first set out a good wat is beneficial, and enables the young to take hold and the plants to be more quickly established. A day o later, if the surface is finely pulve and kept in that condition, it will vent evaporation of the moisture the soil and furnish the best cond for robust growth; for the ideal dition, if it could be created, would dry loose pulverized surface, w moist subsoil. During a long drou thorough soaking occasionally is ficial, especially before flowering during September, to induce he growth of new plants from eyes o shoots, but it must be kept in min continual excessive watering is to prove fatal. An alternate s drying process following each wa is best. Iris love moderate mo down around their fibrous roots hate it around the base of the f or in the form of mud coverin rhizome, or water in the res formed by the leaves in the fan. rot often begins by continual mo held in the foliage until it begins and is then communicated down roots. If the water can be a directly to the ground, instead o spray, it is most desirable.

One might gather from all instructions that Iris is a difficul to grow, but it is anything but. same time there is a right way wrong way to do everything fo results and the Iris surely repa extra care and attention that it re

Heating Your Home With Gas

Continued from page 500

third of the fuel, it brings the cost down to an equivalent of $0.70, which is another matter.

Again, you must keep in mind the quality of the gases—the 'heat value.' Natural gas, as a general thing, will give off 1000 heat units per cubic foot, while manufactured gas usually contains from 500 to 550. Natural gas may cost from $0.40 to $0.60 per thousand cubic feet, but manufactured gas for heating seldom is available below $0.70, and may cost as much as $2.00. It might be fair to say that manufactured gas, above $0.75 could be considered a 'luxury' fuel, unless the high cost of the fuel is offset by reduction in heat loss through insulation, weather-stripping, etc.

However, as with oil, there is no direct comparison with coal, dollar for dollar. Gas and oil can automatically be fed to the heating plant in exa portion to the need for heat. The residue, and no dust.

Three years ago manufactur was available for heating only i communities; to-day hundreds companies have secured the ne permission from the proper st thorities to make rates that are d to make gas heating popular. G panies see, in the utilization of house heating, a tremendous fi development. It is not entirely picture, as it brings up many vit lems of policy, of finance, and nique in gas-making and distri Keen minds are focused on this f ing problem, and we all kno American executives, financie engineers can combine to do a under the sun.

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Readers are offered our assistance in finding Properties, Poultry, Dogs, Livestock, and Accessories. There will be no charge for this service. Write to C. Kircher, Manager, CLASSIFIED DIRECTORY, GARDEN & HOME BUILDER, 244 Madison Avenue, New York.

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of the most desirable estates in southern New Hampshire, 15 s from Concord, 85 miles from Boston, 285 acres, 70 of them r cultivation; 350 unexcelled apple trees, tract of growing er. Colonial house, ten rooms, bath, electricity, steam heat, lace in large living room. Cottage for foreman. Two barns, and corn houses, also two car garage. Unusual opportunity. ner details.

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itfalls to be avoided and triumphs to be achieved under Pacific oast conditions. $2.50 at all bookstores

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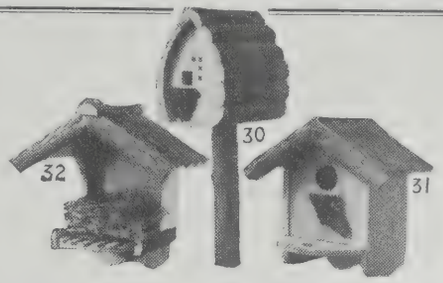

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This kennel yard, made up of "Buffalo" Portable Fencing, is beautiful, strong, economical and PORTABLE. Protect your dogs and beautify your grounds with this fine fencing.

Assortment No. 1-A, containing 5 sections 7′ long x 5′ high, 1 section 4′ 6″ long x 5′ high and 1 gate 2′ 6″ wide and 5′ high, will build the yard shown. It costs only $26.50 F. O. B. Buffalo, N. Y. Send check, money order or N. Y. draft and start your "Buffalo" Portable Fencing System with this assortment—add to it as your requirements increase.

Write now for booklet No. 80-G

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179

"Buffalo" *Portable Fencing System*

Prove this Yourself at our expense!

If "Lime Crest" 2 in 1 Calcite Crystals and Calcite Flour, used according to directions, fail to produce better poultry and eggs we'll refund cost of your trial order. *Take a the place of shell and ordinary grit.* For details write Dept. P 11

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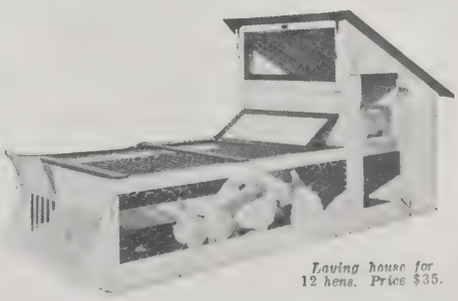
Lime Crest

Dog kennel with partition. Walls and roof of cedar. Yellow pine floor. Price $22.

Old homestead bird house, 10 rooms; 16-foot pole. Price $15.



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WHEN it comes to attractive outdoor equipment for your country home, think of Hodgson. There are Hodgson-built houses and furnishings for every purpose. Beautifully made of selected cedar. Painted, stained and finished to the last detail. Free illustrated booklet X, it tells about

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DON'T FOOL YOURSELF

Since halitosis never announces itself to the victim, you simply cannot know when you have it.

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Listerine, because of its marked power as a deodorant, ends halitosis.

RECOGNIZING, first, that halitosis (unpleasant breath) is widespread, and second, that its victim is seldom aware of its presence, nice people avoid the risk entirely by using Listerine.

Simply rinse the mouth with it. Every morning. Every night. And between times before meeting others. It immediately ends halitosis. The breath becomes sweet and inoffensive. And how important that is in social, home and business life!

Listerine ends halitosis because it strikes first at the cause. And then conquers the effect. Being antiseptic, it checks fermentation from which odors usually arise. Being a powerful deodorant, it then dispels the od themselves.

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Don't take the chance of offe ing others when, by simply us Listerine halitosis can be prevent Keep a bottle handy in home a office. And use it. Lamb Pharmacal Co., St. Louis, M U. S. A.

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Cools your skin while you shave and keeps it cool af ward. An outstanding shaving cream in every resp

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"The Panther Lily." Grows from 3 to 5 feet high; blooms in July.

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For the benefit of discriminating flower lovers we have made a careful selection of choice Lilies suitable for planting this Fall, so as to afford a wealth of beauty and color in your garden from early Spring to late Fall. By carefully following the instructions outlined in our book ***"Consider the Lilies"*** —sent FREE with this collection—these bulbs should give entire satisfaction.

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Three good flowering bulbs of each of the following splendid varieties

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Canadense - - -	$ .60
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A total of 30 bulbs at the catalog value of $14.85
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The above collection, including the book, sent postpaid to any part of the United States for - - - **$12**

One third of the collection with the Lily book for $4.50.

The colored illustrations shown in this advertisement have been taken from our book ***"Consider the Lilies."*** This book has 78 colored plates, and describes 101 varieties in detail. Sent free with Lily orders amounting to $3.00 or over.

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to protect his throat,
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"The voice is essential to stage work and its care one of the actor's greatest worries. During the course of some of my stage appearances, I am called upon at intervals to smoke a cigarette and naturally I have to be careful about my choice. I smoke Lucky Strikes and have yet to feel the slightest effect upon my throat. I understand that toasting frees this cigarette from any throat irritants. They're 100% with me."

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THE COUNTRY LIFE PRESS, GARDEN CITY, NEW YORK

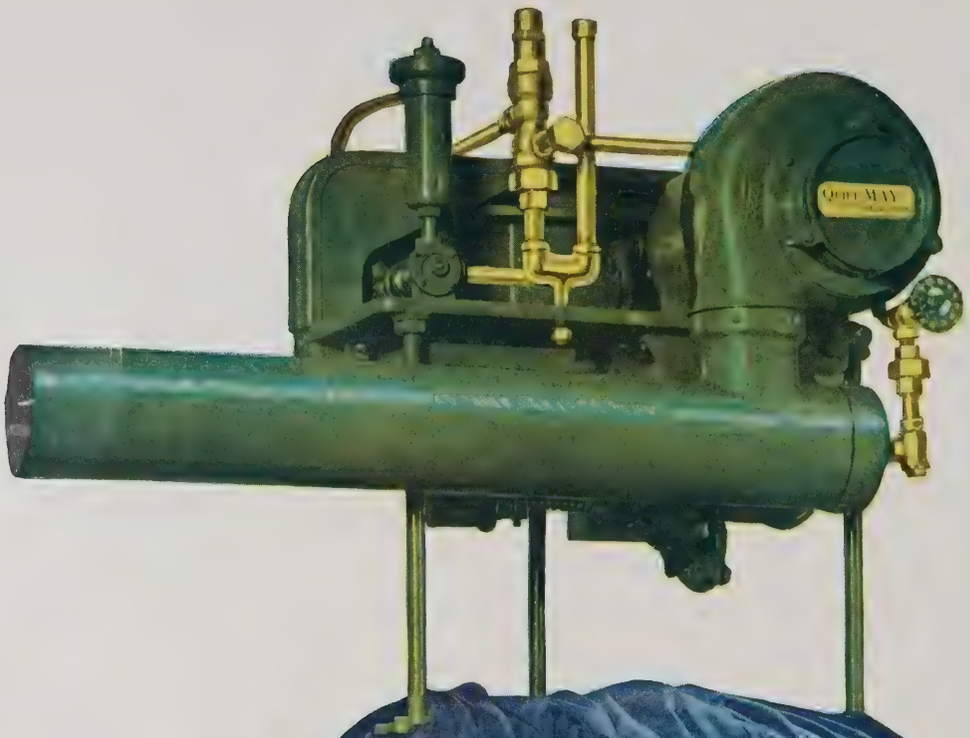
GARDEN & HOME BUILDER

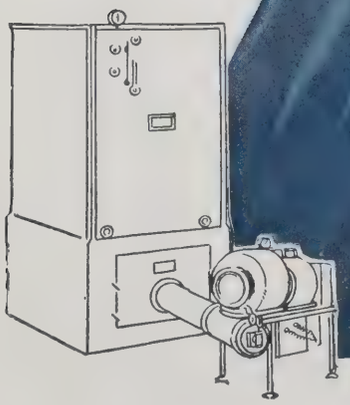
JUL 30 1928

August 1928

DOUBLEDAY, DORAN & COMPANY, INC.

Price 35 Cts.





A QUIET MAY Automatic Oil Burner can be installed in the heating system which is now in your home. It doesn't make any difference whether you have a steam, vapor, hot water or hot air system.

Install a QUIET MAY now and pay for it with small monthly payments starting in October. The QUIET MAY is neither expensive to buy or to operate. It is made for small homes as well as large homes.

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What Are You Going To Do About the Holes In Your Hardy Garden?

By holes, mean not alone the places where you need more plants; but the pauses between bloomings. No reason at all why you shouldn't have one long line of joyous blooms from April to November.

FURTHERMORE, there's the question of colors. Haven't you most too much yellow? And then those unruly magentas. Why put up with their discordancy? What's the use when there are so many amiable ones that will fit right into your garden picture.

How about some of the low growing ones for the edge places? And for the back, shouldn't you have those tall growing lassies you've always said were needed?

You know September and October are especially good months for planting hardy perennials. Send for our catalog. Order your plants for future shipment. Include some bulbs. Tulips are lower than even before the war. Overproduction's the reason. It's your fine chance.

Why don't you buy a hundred at least, and make a cutting row so from now on you can have all the vase flowers you want.

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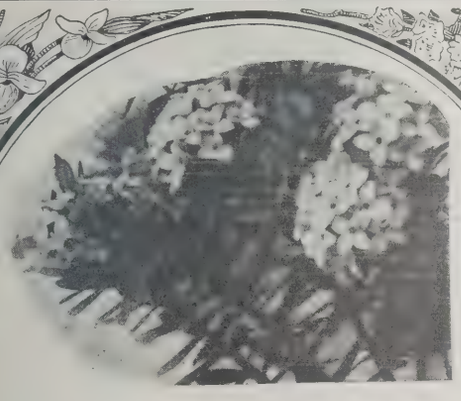
Wayside Gardens

E. H. Schultz, *Pres.* — *Mentor, Ohio* — J. J. Grullemans, *Sec'y-Treas.*



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The partly open winter proved a terror for some of our broad-leaved Evergreens. Many burned badly—among them the fine stock of Garland Flowers (Daphne cneorum) about which we told you last April. So we cut them back and they have come back, better than ever, with their shining evergreen foliage and delightfully fragrant pink flower clusters.

Planted During July–August Will Bloom Freely Next Spring

Early fall planting will cause them to become firmly established before winter's arrival. Every plant will be a specimen. The larger sizes will come with large ball of soil, tightly burlapped, packed to arrive in perfect condition.

	Each	10	100
6 to 8 in.	$0.75	$6.50	$60.00
8 to 10 in.	1.00	9.00	85.00
10 to 12 in. spread, B. & B.	1.25	11.50	110.00
12 to 15 in. spread. B. & B.	2.00	17.00	160.00

A Catalog abounding with many other unusual offers of unusual plants of special interest to nature lovers gladly mailed free on request, and please mention Garden & Home Builder.

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"A Low-growing Evergreen that Smiles all the Time"

One of our friends says that Pfitzers Juniper is "the handsomest, most satisfactory low evergreen, for it smiles all the year." We think he is right.

Pfitzers Juniper will grow about 6 feet tall, and equally broad, with branches that look like gray-green ostrich plumes. A splendid variety for porch planting or driveway groups.

The past winter was mighty hard on evergreens, but our blocks of Pfitzers came through uninjured—which shows that they are hardy and do not turn brown.

We have well-grown specimens from 1 foot to 4 feet, at prices varying from $3 to $15 each. The complete list is given in our catalogue, but you ought to come to the nursery and see them.

Home Landscapes

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HICKS NURSERIES

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Choice and Rare Irises

at Exceptional Figures

Connoisseurs will recognize the excellence of the following varieties and the low prices quoted. Most of them have never before been sold at these prices, which are lower than the prices in my catalogue and apply only to orders received this month and next in direct response to this Ad. THIS OFFERING SHOULD BE OF SPECIAL INTEREST TO COMMERCIAL GROWERS, as it contains many rare varieties, at low prices and offers an opportunity to build up a high class Collection.

MME. DURRAND: One of the most prized Iris in my entire Collection of over 1000 varieties. I have about 150 surplus plants that I will sell at.....each **$1.50**

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AVALON: A perfectly formed large flower of medium blue self coloring.....**2.00**

MRS. PERRY: A gigantic marbled white; the largest and probably the best garden white.....**2.50**

LONA: An exotic peach colored plicata, much like an Orchid.....**3.50**

DAPHNE: An improved Rhein Nixe, white and purple.....**1.00**

MME. CHOBAUT: A handsome choice yellow plicata.....**.50**

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MARSH MARIGOLD: One of the finest variegatas. Golden yellow and red-purple **.75**

LENT A. WILLIAMSON: One of the world's finest, blended lavender-violet.....**.40**

MOTHER OF PEARL: Iridescent Mother of Pearl coloring.....**.40**

FORSETE: A 1924 introduction. Fine medium blue self.....**1.00**

Being primarily a "hobbyist" I gather choice and rare plants from all over the world, much the same as an art collector gathers rare works of art. But as plants will multiply, I am willing to divide my surplus with other flower lovers on the most favorable terms: I have more than 1000 choice varieties of Iris alone. Every one is a real gem; I would not give space in my gardens to anything but the best. Here are some of the bargains I am offering:

Collection No. 1

20 PLANTS in ten extra choice varieties of Bearded Iris, all quite distinctive and different from each other, all properly labeled, my selection, plants that would cost 50c. to $1.50 per plant if selected separately. 20 PLANTS for **$5.00.**

Collection No. 2

25 PLANTS assorted, choice Bearded Iris in many different varieties, my selection, without labels for **$4.00.**

(As I have only choice varieties, you are sure to be pleased with this Collection.)

Collection No. 3
SIBERIAN IRIS

Many eminent authorities consider these the finest of all Iris. They are easy to grow by the waterside or in the garden, and are good for naturalizing. Free flowering and exquisite for cut flowers. **10 Snow Queen (the finest white), 10 Blue King (a gorgeous blue), 10 of another variety, my selection. TOTAL 30 PLANTS, all properly labeled, for $6.00.**

Collection No. 4—
DWARF IRIS

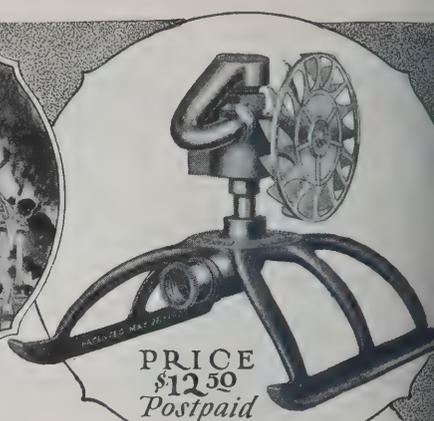
Especially adapted for the Rock Garden, each a miniature jewel. They bloom just after the crocus have finished blooming. 20 PLANTS in five varieties, my selection **$5.00.**

Collection No. 5—
INTERMEDIATE IRIS

This selection blooms just after the Dwarfs and finishes blooming just as the Taller Bearded Iris begin to bloom. They come in the early Spring just when flowers are most appreciated. Some very choice varieties will go into this Collection. 20 PLANTS in five varieties, my selection, all labeled for **$5.00. 100 in 10 varieties $15.00.**

ROBERT WAYMAN

BAYSIDE **LONG ISLAND, N. Y.**



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Your Dry Weather Protection

YOUR place can be as attractive in August as it was in June when you have a Double Rotary Sprinkler,—flowers as colorful, lawns as green, gardens as beautiful and healthy. This efficient sprinkler protects every growing thing from the scorching sun and dry weather. Sprinkles like a gentle shower any time, any place. Covers a circular area of 5,000 square feet. Easy to adjust nozzle to cover any circle down to 15 feet. Self-operating—needs no attention. Built for years of economical service. Bronze and steel gears run in bath of oil.

Order Now and try 10 days. If not completely satisfied, return sprinkler and money will be refunded. Descriptive literature on request.

Dealers: Write for special sales proposition

THE DOUBLE ROTARY SPRINKLER CO.
601 Coca Cola Bldg. Kansas City, Mo

DOUBLE ROTARY SPRINKLER
REG. U.S. PAT. OFF.
Next Best to Rain

They are always SAFE

behind PAGE FENCE

Vacation-time is play-time.
You can make your yard a *safe* playground for your children. A boundary line of Page Chain Link Fence, keeps children out of the street—"They play in their own yard."

53 Page Service Plants erect fence everywhere

There is a Page Service Plant near you that can give you complete service from your first plans to the final erection of the Page Chain Link or Wrought Iron Fence. Write for name and address, also interesting literature.

PAGE FENCE ASSOCIATION
215 No. Michigan Ave., Dept. 8-B, Chicago, Ill.

Page makes and erects Wrought Iron Fence, too.

PAGE 53 *service plants erect fence everywhere* FENCE
America's first wire fence — since 1883
CHAIN LINK — ORNAMENTAL WROUGHT IRO

The GARDEN AND HOME BUILDER. August, 1928. Vol. XLVII. No. 6. Published monthly by Doubleday, Doran & Company, Inc., Garden City, N. Y. Subscription price, $3.00 a year.
Entered as second class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

Opportunity!

Slom repeats itself, but if by any chnce you failed to buy Schling Qdlity Bulbs at our import prices of My and June, you wi.l be glad to len that we still can offer a limited nber of the collections listed below d ing the months of July and August, or, at prices far below those that w obtain later. Send for our Special Bb List.

(TE—these are all top size, first quality bs in collections of named varieties—not md. Plant each variety separately and le to appreciate its individual charm and ty.)

ollections in units of 100 only—our se-leon of varieties.)

- 0 Single Early Tulips in 10 named varieties $5.50
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- 0 Breeder or Art Tulips in 5 rare named varieties. In form like Darwins, wonderful pastel shades . . . 6.50
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- 0 Glory of the Snow, blue (Chionodoxa) Loveliest and earliest Spring flower for naturalizing 3.50
- 0 Poet's Narcissi 9.00
- 0 Crocus, in 4 colors. 3.50

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Max Schling Seedsmen, Inc.
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Glimpse of our Showgrounds at "Tulipdom" during Tulip-time

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Why do we emphasize repeatedly the need of acting *at once* in connection with your Tulip order?

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"Bulbs in a Class All Their Own"

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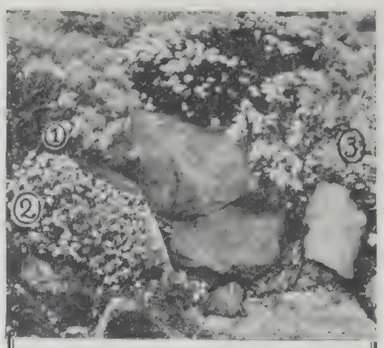

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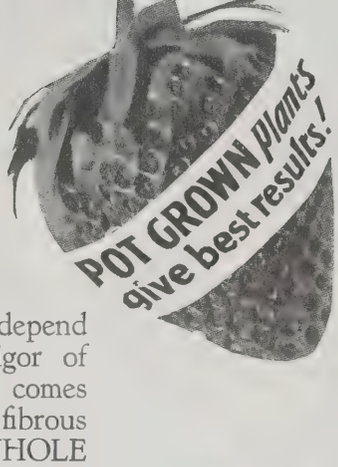

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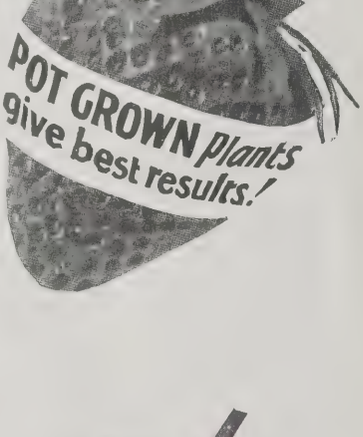

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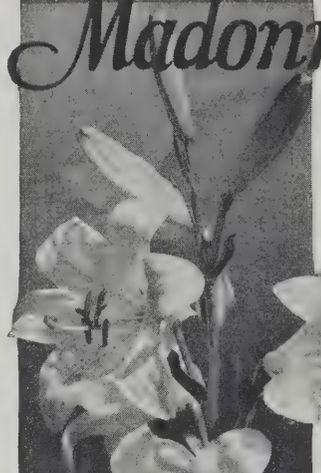

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Six bulbs of each variety (54 bulbs in all) **for $13**
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The beauty of the Mertensia virginica or Virginia Cowslip in early spring, with its clusters of nodding tubular flowers, opening clear pink and turning to sky blue, is indescribable.

Although preferring dry shade, it will grow almost anywhere successfully. It is never out of place whether as a single plant in a tiny garden, or naturalized by the thousand on large estates. It may be planted at any time during the fall, but preferably during the month of August.

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$120.00 per thousand

Other things to plant in late summer are Spring Beauty, Dicentras, Oriental Poppies, and Bloodroot.

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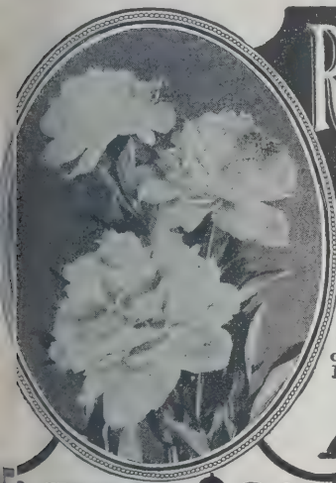

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th one Richardson's Rubra Superba, a l Peony, FREE, if you order before Sepmber 15th. These Peonies are of our lection. Divisions are extra large. Each ot is correctly labeled. Two reds, two nks and two whites in collection. All t for $2 and $1 Peony root free for an rly order.

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It differs however, in that you buy a car every so often.

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Cherry Hill Quality

was again demonstrated at the GREAT JOINT PEONY EXHIBIT of the American Peony Society and the Massachusetts Horticultural Society at Boston, June 22-24, 1928.

The comment of the *Boston Globe* well sums up the situation.

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THIS EXHIBIT was awarded the FIRST PRIZE and a SILVER MEDAL.

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Could you but see the hundreds of thousands of choice blooms here this summer you would readily agree with us that here QUALITY REIGNS SUPREME.

Our digging and shipping season usually begins about the last week in August and continues up to the time the ground freezes.

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Mme. Chereau—White and light blue.
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36 plants (3 of each) **$8.50** **72 plants** (6 of each) **$14.50**
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Potgrown Roses, Potted Hybrid Teas, Climbing and other Roses. Ask for special list.

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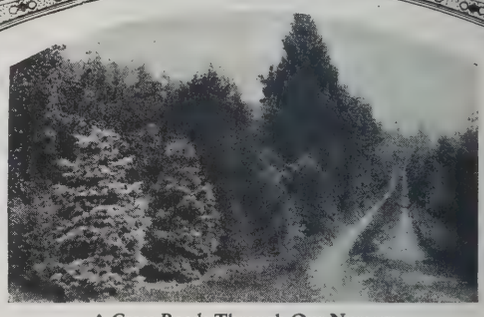
BOBBINK & ATKINS, Rutherford, N. J.



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AUGUST IS A GOOD TIME TO PLANT EVERGREENS

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Specimen Trees at Bargains

to make room for the Saw Mill River Parkway, which is due to cut a wide swath through our Nurseries during the next two years.

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Our Peony Collection has been developed through 25 years of painstaking selection. It contains only Peonies of proven merit. Our Iris Collection includes both Japanese and German varieties, also the standard American varieties.

Write today for our Summer Catalog or call at our Nurseries, any day except Sunday

ROSEDALE NURSERIES

"Outfitters for the Home Grounds"

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GARDEN & HOME BUILDER

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VOLUME XLVII NUMBER VI

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FORECAST for SEPTEMBER

SEPTEMBER is, in a sense, one of the pivotal months of the year—the attention of the home owner swings back and forth between outdoors and in. He, or she, or both of them begin to think of the coming winter, the succeeding spring—it is almost time to get the house in shape for colder weather and certainly time to begin the autumn planting for next season's effects.

Gardeners who are particularly keen about color will expectantly turn, then, to the plan and descriptive list of plants for 'The Little Rose and Blue Garden' by Harold Hill Blossom, Landscape Architect, well known for many charming gardens, chiefly in New England. 'Autumn Glory in a Five Months' Garden' is a beautifully convincing example of what may be done in the newly made garden and how, even as late as October, there need be no dearth of bloom. 'Pygmalions Among the Perennials,' 'Quality Grapes,' and 'Insuring Your Lawn' all have practical appeal for the amateur, and very timely, too, is Basil E. Gilbert's speculation about the origin of 'The Dahlia, a Mystery Flower,' whose past continues to baffle the most ingenious of horticultural Sherlock Holmes-ters.

Among articles of specific interest for the housewife comes Mrs. Gene A. Kempson's 'Making or Hanging Your Own Curtains,' Pierre Dutel's account of 'How to Mend Furniture,' and Hanna Tachau's sprightly description of the new 'Color & Design in Dishes.'

Recently, over the radio, the famous 'March King,' John Philip Sousa, said that music was one of the two greatest and most continuous sources of inspiration universally enjoyed by mankind. Certainly every home needs and desires music and every homemaker will read with interest Derril W. Hart's reasons why 'The Piano Holds Its Place.'

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

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For more than half a century we have been growing the world's most beautiful peonies. Peony lovers who want new and original creations come to us year after year for their plants. The picture of the little girl above with two wonderful blooms of Martha Bulloch gives an idea of the size and beauty of Brand Peonies. You can well be proud of your Peonies when you grow from original Brand Stock.

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We have in stock this fall fifty acres including all the glorious creations that have been developed during fifty years of peony growing. Brand Peonies are almost invariably prize winners wherever exhibited. They are the kind of Peonies you will be proud to grow. Among the beautiful varieties we have to offer this season are:

LeCygne, Lady Alex Duff, President Wilson, Mme. Jules Dessert, Sarah Bernhardt, Mrs. A. M. Brand, Mrs. Romaine B. Ware, Myrtle Gentry, Hansina Brand, Mrs. Frank Beach, Hazel Kinney, Victory Chateau Thierry, and in fact all recent good peonies.

Brand's Complete Peony Manual

Our new Peony Manual will be ready for delivery about August 15th. It describes not only our own creations, but many other varieties of rare and entrancing beauty. This book covers all one needs to know about the Peony. It treats in full of its history, its varieties, and cultivation. We make a charge of $1.00 for this manual but if you order Peony Roots amounting to $3.00 or more this wonderful book is sent free.

1928 Catalog Free

Get your free copy of our 1928 catalog. Send for it now and when your order for Peony Roots amounts to $3.00 or over, we will send you a copy of our beautifully illustrated Peony Manual. Every Peony lover should have this manual because it is the most complete book of its kind ever published. Write for our free Catalog today.

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Come Into the Garden

WHETHER the name Wisteria is correctly or incorrectly spelled in that ay, or whether the middle vowel should an 'a' or an 'e,' is always cropping up, id when reference was recently made in is page to the origin of the name in conection with Dr. Caspar Wistar (this was in ie comments on the Centennial of the ennsylvania Horticultural Society), I reived several letters debating the point as whether I was right or not in the spelling used. It seems to be one of those little batable points about well known garden ants that have a peculiar and perennial tality and which apparently will not tay put' even in the face of real authorty. Another such question is the pronunation of Gladiolus.

Now it is curious that a remote question ke this should so intrigue the fancies of a w garden lovers. And so I asked Mr. lfred Rehder, Curator of Arnold Arboretum, to do some research work and ve us all the evidence, and then to reew the case as he saw fit. Here we have

THE PERENNIAL ARGUMENT ON WISTERIA

There are perhaps few botanical names which the spelling has vacillated ore than in Nuttall's genus Wisteria. uttall himself in 1918 when he named ie genus in memory of Caspar Wistar elled it Wisteria, but Rafinesque in viewing Nuttall's work the following ear (in Am. Monthly Mag. 4:187) anged the spelling to Wistaria. The orinal spelling was used in DeCandolle's rodromus in 1825 and he was followed y Sweet in his British Flower Garden 827), by Siebold and Zuccarini in their lora Japonica (1839) and by Endlicher his Genera Plantarum (1840).

Sprengel, however, in his Systema Plantarum in 1826 accepted the spelling Wistaria, and this spelling was used afterards by the majority of botanists of hom the following ay be mentioned: G. on in General System Botany and Gardening (1832), Torrey and ray in Flora of North merica (1838), Lindy in Vegetable Kingom (1846), Bentham id Hooker in Genera lantarum (1862), K. och in Dendrologie 869), Baillon in Hisoire des Plantes (1870), ngler and Prantl in atürliche Pflanzenfailien (1897, in Nachag, p. 201), Miller in ailey's Cyclopedia of merican Horticulture (1902), and Rehder and Wilson in Sargent, Plantae Wilsonianae (1916).

In 1897 Meehan (in Meehan's Monthly, 8:47) published a letter in which the writer pleaded for the restoration of the original spelling Wisteria. Meehan, however, was for Wistaria and says that the spelling Wisteria was evidently a typographical error. This I do not believe, for if this had been the case Nuttall would have corrected the mistake in the list of corrections at the end of his book. It is much more likely that Nuttall's change of the vowel was intentional and for the purpose to make the sound of the second syllable in the latinized word agree with the English pronunciation of the 'a' in Wistar. Similar changes in the original spelling of proper names have often been made to preserve the pronunciation in the vernacular by substituting letters which have a similar sound in Latin as in Lindsaea named after Lindsay, in Bossiaea named after Boissieu, in Fevillea named after Feuillée, in Carex goodenowii, named after Goodenough, and in others.

According to the International Code of Nomenclature of 1905 the original spelling of a name must be retained except in a case of a typographic or orthographic error. As there is in our case apparently no typographical or orthographical error, but an intentional change, the original spelling should be retained according to the rule cited and therefore the spelling Wisteria has been taken up again in some more recent works, as in Schneider's Illustriertes Handbuch der Laubholzkunde (1907), in Bailey's Standard Cyclopedia of Horticulture and in his Manual of Cultivated Plants (1924), and in the Standardized Plant Names (1923). There is, however, one strong reason that this should not have been done, namely the existence in the International Code of Nomenclature of a list of 'Nomina conservanda'—that is a list of long established generic names that should be retained in preference to older names which have never been generally used. Among the names to be retained is the genus Wistaria which is given the preference of the older name Kraunhia of Rafinesque. It is true that no mention is made of the spelling Wisteria as a rejected form, but the fact that the accepted name is spelled Wistaria must be taken to mean that the name should be adopted in this form. Therefore I have used the spelling Wistaria in my Manual of Cultivated Trees and Shrubs. For those who follow the American (or Philadelphia) Code of Botanical Nomenclature the question is of no importance, since they accept Kraunhia as the correct name of the genus. For the followers of the International Code of Nomenclature the question hinges on the point whether the names in the list of the generic names to be retained must be accepted in the form they stand or whether they are subject to change. According to my opinion they should stand as they are proposed and could not be changed except by vote of another competent International Botanical Congress. I therefore recommend the spelling Wistaria which at the same time is the spelling most generally in use since 1826.—Alfred Rehder.

And so there you are! Or, rather, where are you? In the face of all the foregoing facts, I lean towards a preference for Wisteria, but that after all may be a biassed judgment through loving association. 'You can't teach an old dog new tricks'—not easily at least. But I do think that the name Kraunhia will not achieve the folk value of either Wisteria or Wistaria, good American though that be. Once a plant name, even though it be strictly technical, has won popularity it becomes common, or as we conventionally say an 'English' name. How or why such name becomes common often depends on mere nationality—Chinese or or Russian words, for example, don't fit easily on English trained tongues.

Wisteria luxuriantly clothes and knits this dwelling to the ground; home of Mr. J. C. Demarest at Rockville Center, L. I.; Annette Hoyt Flanders, Landscape Architect

Leonard Barron

Photograph by S. H. Gottscho

Ideally set within the framing countryside is this porch where one may sit and sip at ease while summer pleasurably passes overhead. Home of Mr. George P. Butler, Mt. Kisco, N. Y.; Butler & Corse, architects

When You Build Your Garden Pool

The practical side of things by a man who has done them

JOHN L. REA

I AM not concerned with water gardens on a large scale—which is so often the popular conception of a 'pool'—but rather with several types of small and simple pools which might be suitable for the more unpretentious gardens with which most of us are working. And at the outset let me reassure those who, like myself, have to watch expenditure closely, that the cost of a pool need not be excessive. The largest of those I have in mind to describe cost, perhaps, all told, three hundred dollars, and that covered the laying of all supply and drainage pipes, as well as the construction of the sixteen-foot-wide basin and the stocking of it with a half dozen choice Waterlily plants; while the least costly meant merely the outlay of the two dollars spent for the Waterlily root.

The accompanying photographs show water features which I have had occasion to see constructed in gardens in and about the city of Plattsburgh, N. Y. It may be that in these pictures and short descriptions of the building of the pools some other garden lover may find the inspiration and practical detail to make a long cherished dream come true.

The simplest of all Waterlily pools is, of course, the half barrel sunk in the ground. Yet, simple as it is, the beauty of the tiny floating Lilies inspired a great singer who was visiting my garden last summer to sing softly Heine's beautiful lyric, *Die Lotusblume ängstigt.* Even the most circumscribed garden can find room for a half barrel, which may be sunk in the earth or merely placed among the plants of a border, as is the one I picture here. Here the foliage of Phloxes, Columbines, and Irises sometimes quite hides the barrel, and always furnishes an attractive setting for the water surface and the Lily pads and flowers. The tub shown was merely half a discarded cider barrel cut around at the bung. A wooden lard tub from the grocer, well scrubbed out and perhaps painted, would answer, while a section of a brewer's cask would be a veritable treasure trove and furnish water surface enough for several Lilies. The Lily gracing the half barrel pictured is Nymphaea tetragona, a Chinese species, sometimes, from its diminutive proportions, called the Pygmy Lily, for its leaves and blooms are seldom more than an inch in diameter. This is the white variety; the yellow sort is equally attractive.

To make handling easier it is usually best to plant the root in a convenient sized box rather than directly in the tub. In our latitude the roots must be wintered in the cellar, and the tub would be heavy and awkward to handle. With larger growing species I have used lard tubs for planting, setting the tubs in the pools where the Waterlilies were wanted, before letting the water in to cover them.

For soil any good garden earth combined with well-rotted cow manure seems satisfactory. But one precaution to be taken is to cover the surface of the soil with an inch or so of good clean sand. This prevents light particles of soil floating up and clouding the water. But the Waterlily specialist explains all that in his catalogue, and, much more important, he will disclose to you the surprising wealth of type and coloring of Waterlilies suitable for growing in tubs or the ordinary garden pool. There are day and night bloomers, sorts whose blooms float directly on the surface of the water and others which rise free of the water, and the color range includes white, pink, yellow, blue, red, and purple. There is all but as great a variety in foliage as in flower; in some species the leaves are bright green, in others red, etc. many of them being one color above and another on the under surface, while most of them are beautifully splashed and mottled with darker tones.

Recently I have seen the suggestion, which seems very good, of sinking several tubs in a low spot in a garden and by using true aquatics in the tubs and moisture loving plants about and between them, building up a water garden of considerable extent and comparatively little cost. Loss of water by evaporation would, of course, have to be remedied every day or two. If one has the right place for such a project, I think it is well worth considering.

My next simplest pool was the bird

Perennial Alyssum, Rock Pinks, and Iris soften and color the rim of this charming little pool made by Mr. Rea and described in detail on page 571

bath which stands at the center of a little terrace garden at the Sibley estate at Valcour, N. Y. Here piping was necessary, as the big bronze frog set on the edge of the basin, rippling the surface of the water with a jet from his mouth, must have a constant supply. Then, too, an overflow pipe had to be provided to carry off the surplus and keep the level constant for the birds. The sloping bottom furnishes varying depths of water to accommodate both the short and the long legged visitors. The birds began coming almost as soon as the pool was ready for them. They always do come, providing the basin is placed in the open where danger cannot lurk in the guise of the deadly cat. Even crows have been seen washing up in this little pool.

In building this pool we first made an excavation about a foot deep and five feet across. Then a circular wall of flat stones was laid up to six or eight inches above the ground level and, within this, the bottom of the basin roughly shaped with sharp clean pebbles of varying sizes. Then a layer of white portland cement mixed with coarse granite dust and a little fine white marble dust (obtained from a local stone worker's shed) was spread over the bottom and worked about the inner faces of the stones of the curbing. The pamphlets furnished gratis by the cement manufacturers give complete directions for mixing the cement. When such work is done in hot weather it is safer to keep the surface well sprinkled and protected from the sun until it has thoroughly hardened. Too fast drying may cause cracks and subsequent chipping.

In a pool of this type or for that matter in any pool where the water is being constantly changed and so kept cool, no attempt should be made at growing plants. In this case Water Forget-me-nots were set about the outside of the basin, where against the cool damp stones they grew lustily and flowered profusely the whole season through.

In the Levy garden we had the advantage of a seven-foot red brick wall across the north and farther end of the garden. With this opportunity of course the obvious thing was a wall fountain. So at the base of the wall facing the end of a long grass panel and extending between two pilasters, a semicircular basin was constructed, using ordinary gray cement and crushed gray limestone of the same color as the coping. The water pipe to the grotesque head set in the wall and the overflow pipe from the basin were laid from the basement of the barn, where water and sewer connections could be made. Here again water plants would be out of place, the interest lying in the musical fall of water splashing into the basin. This makes a particularly fitting adjunct to the sunken formal garden with its long grass panel centered with a sun dial and flanked by flag walks and wide beds of perennials, the whole surrounded by a wide cinder walk, high clipped Arborvitae hedges and wall. The fountain is exactly opposite (*continued on page 571*)

A simple and effective little bird bath, about five feet across, and circled by lustily growing Water Forget-me-nots (see accompanying text)

Very effective is the circular planting of Phlox, framing and offsetting the sundial in Mrs. John L. Severance's garden at Cleveland Heights, Ohio

Phlox, Flower of Flame

Half a hundred hardy species that are easily grown

STEPHEN F. HAMBLIN

Director, Cambridge Botanic Garden of Harvard University

WHEN Linnaeus bestowed the Greek name of 'flame' upon this group of American plants he could not have seen the pale tints of rose or blue of most of the species. The bright shades of red and purple are found only in the named sorts of the Garden Phlox, and some of the common kinds of Moss Phlox, and there are no yellows at all. Many other groups of plants run more to the flame colors.

There are some 50 species, nearly wholly American, particularly of our country, though one ranges through Alaska to Siberia, and at least one is found in the Andes. All are hardy herbs of easy culture (supposedly) and perfectly hardy in any cold climate. Every species or variety is useful as a garden plant, sure to bloom and reasonably permanent. Many of the small species set no seed, but all may be increased by division or cuttings of stem or roots. In our search for native plants for garden planting these deserve first consideration. Not a dozen species are in common cultivation, and several are rarely grown, while most of the species are unknown as garden plants and unobtainable except through botanists who may collect them.

Though all are good garden plants the habits and cultural requirements are quite varied. There are two main groups, from the point of view of the gardener—those wholly herbaceous and those with evergreen basal foliage and woody stems.

The annual species, Drummond Phlox (Phlox drummondi), is one of the best low annuals. It is native to the region of Texas, and it is variable in the wild, so that clever botanists can make several species of it. In the garden it changes into many color forms and flower shapes, but foliage and habit are the same in all the sorts. The color range is nearly through the spectrum, even orange and washy yellow.

The common forms of Garden Phloxes are tall herbaceous perennials, unbranched, from one to three feet high. The culture is similar, but height, season, and color, as well as foliage, run through a long range. This section includes P. paniculata, P. maculata, P. glaberrima, P. arendsi, P. divaricata, P. pilosa, P. argillacea, etc., all good hardy perennials with no winter foliage and the stems unbranched. (*continued on page 578*)

The house as we first saw it (left) and the house as we enjoy it to-day (above) —a transformation certainly

Now we can sit on the south porch and look out across the garden—a far pleasanter sight than the old pig pen

Adventuring in Contentment

ELIZABETH E. KALB

ON A wonderful Saturday in October we started out on what proved to be our great adventure. An advertisement in our favorite newspaper which read, 'Old-fashioned New England farmhouse, four fireplaces, sixteen apple trees and three acres of land,' had been the call!

After a drive of about thirty miles through roads made lovely by autumnal foliage we reached our destination and we found a soul-satisfying view of golden shimmering marshes with a glimpse of blue ocean beyond.

We were delighted with everything and could visualize it as it would be when we owned it. The whole transaction of buying occupied about two weeks and then our fun began.

The little house was sound and when we were finally settled in it, I said: 'All we did was paper and paint, build a garage, put in a bathroom and build a screened-in outdoor living room twelve feet by thirty.' And my husband remarked: 'And that was enough!'

What we really did the first year was to put in town water, carrying the water pipes three-eighths of a mile at our own expense. Then we painted the cottage white, with green blinds and doors. Originally each side of the cottage was a different color, one side white, one side pink, one weathered and the other new shingles. All the interior woodwork was painted white. How we did work in the early spring taking the old wallpaper off all the rooms! No one had ever taken any off before in the hundred years of its existence although many layers had been put on. For the living room I found a lovely lavender paper which is still doing service after twelve summers. We removed the door to the closet and use the shelves for old china. An old corner closet with sunburst shelves which I found in Maine has been placed in one corner of the room.

All the other rooms were done in simple light papers. The room to the right of the hall we use for a guest room. There we cut out four of the five shelves in the closet and made it a clothes closet for our guests. The top shelf remains for hats and the sides of the other four for shoes and small things. We closed one door, making space for a fine old maple field bed which was originally in the Longfellow house in Portland, Maine.

The old kitchen has been transformed from its former dinginess into a dining

The old kitchen was transformed into a dining room (above); wide pine boards, painted yellow, form the background for braided rugs

The ancient, ample fireplace looked very cheerless (right) when we first saw it but is now one of the pleasantest features of the dining room

rom of light and charm. The fireplace hs been restored to its pristine glory. Four casement windows have taken the pce of the two small ones. The paper is a nrrow lavender-and-white stripe, and lvender scrim curtains filter the sunshine trough the windows.

I intended to have neither hangings nor ptures in the house but the sunshine nde me compromise so there are now hngings in the dining room and two upsirs bedrooms and glazed chintz shades i the other rooms. Braided rugs with a fw hooked ones are used on the floors, wich, throughout the house, are of wide pe boards, well matched, and painted Clonial yellow.

The walls in the bathroom and kitchen ad the ceiling of the outdoor living room a: painted light blue.

The furniture of the living porch consts principally of Boston rockers but, tles and all, my faithful maid and I pinted the pieces a lovely color which I cl jade green and some of my friends tm robin's egg blue.

The second year we put dormers in the uper chambers as they were unbearably ese and warm in hot weather. The drmers make our architect sad but they add tremendously to our comfort and, though we have tried to keep the spirit of the old house, we have not sacrificed convenience for atmosphere. I am sure the people of olden times would have had some of our modern luxuries and comforts had these been available. And here and now I mention the most important dividend we have obtained is comfort!

Our woods were a tangle of underbrush and horse-briar. We have had them cleared, making them more beautiful, minimizing the loss in case of fire, besides giving us all our fireplace wood and some stove wood. In the foreground of our woods we have planted Rhododendrons, pink and white Dogwood, and various other shrubs.

We had always wanted a garden so we could sit on the porch and look at it. At first we thought it impossible as the ground is rolling, but finally decided nothing else being even, our flower-beds need not be, so finally planned two wide beds starting from the Apple trees and going out to the big Pine where the pig pen had once been. Then we cut a vista through the trees to get a view of the hills beyond, and ended the garden with a semi-circular fence of cedar posts over which a variety of vines ramble. At the left of the garden is a double row of Cedars planted as a windbreak. On the right of the garden is an arbor or pergola of cedar posts covered with Grapevines and at the right of the grape arbor two long beds, one of Blackberries and one of Raspberries, and in the lower garden I have a bed of white Strawberries which I (continued on page 589)

Graceful in shape and delightful in color is this screen with hollyhock and larkspur motif (Thibaut, Inc.)

Attractive Screens You May Make or Buy

No longer frivolous or purely utilitarian the modern screen does service in a decorative way

LEONTINE HENRY SANDERS

ATTRACTIVE screens may be bought in many designs and materials, or with a little skill they may be made at home. Just now the most popular are the wallpaper screens. These may be found in three or four panels, each about eighteen inches wide and sixty-eight high. The handsomest are covered with the famous scenic wallpapers, modern reproductions of the old designs so popular a century or so ago. Attractive also for this purpose are the beautiful imitations of chintz, India prints, and brocades. Others show a foundation of some plain paper in tan or gray, or perhaps a marbleized effect, an pasted over that, generally near the to of each panel, a colored print, map, c something of the sort.

Birds and flowers in a light and not too insistent repeat pattern ring a garden note (Lord & Taylor)

Among aristocrats of the screen worl are those which have been handpainte on canvas. Some of the finest artists o all time, notably among the Chinese an Japanese, have lent their skill to th form of decoration, and beautiful ex amples of their work may be seen in th Metropolitan Museum In our day the nam of Robert Chandler associated with beaut ful painted screens.

In more and more

A swing of fashion's wheel has brought Godey prints again to the fore and effective they are thus delicately mounted (W. H. S. Lloyd Co.)

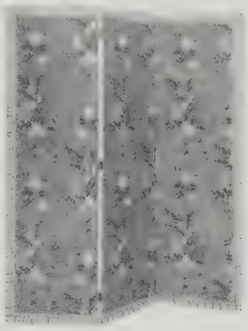
The Chinese has a pe manent fascinatio and such a screen wi hand-tooled leath effect enriches any brary or living roo (W. H. S. Lloyd Co

ie shops one may now find modernistic screens, some of which are covered with hen in large plaid designs, or carry cu-istic figures in daring color combina-ons, or are decorated with nudes which i another age would have been regarded grotesque. Some unusually dainty and autiful screens are oil-painted on heavy tin or even on brocade.

There are also fabric screens in many aterials, in glazed chintz, cretonne, Pa-as satin, damask, brocade and hand-locked linen; fire screens which are ames for old samplers or pieces of petit oint; telephone and table screens of in silk, parchment and scissors clip; id metal screens, to cover an unused fe opening, which show modernistic rought-iron figures on an iron mesh ickground.

Many of the screens seen in the stores n be made at home with a moderate mount of ingenuity and at a consider-ble saving in expense. Wooden frames n be bought at department stores or ade to order by a carpenter. In having frame made, be sure that seasoned wood used and that the hinges are set into e wood, not just fastened on to the out-de. Three panels are often seen, but four nels are better, giving a broader base id more stability.

Before beginning work, take the panels art and entirely complete each one be-re joining them again, as this method much less clumsy than trying to handle l together. Cover each section with bur-p, canvas or muslin, stretched tight id tacked on. Instead of using a fabric, it is better to cover wallpaper screens with wallboard and then with lining paper. A much neater job is possible on this foundation and all of the really hand-some screens are made in this way; it is, with skill, possible to paste paper or cloth



Modern copies of the old French wallpapers make most attractive screens (Lord & Taylor)

directly on to tightly stretched canvas, in the same way that stage scenery is made, but it does not get the best results. If you follow this last plan, do not be discouraged if the wet paper, after you have put it on, seems sagging and full of wrinkles; when the paste dries the fabric will contract smoothly.

In applying paper to wallboard, paste will have to be used for the large surfaces, but when small pictures, borders, or other decorative details are added, it is better to use a clear white mucilage. A border of some kind is usually needed, except with scenic panorama screens. This border may be of wallpaper, glued on, or of a lengthwise fold of the material, or picture framer's tape, imitation leather binding, gold or silver braid, or any one of a number of other materials, chosen according to the nature of main ground. Hold at short intervals with upholsterer's tacks.

Screens covered with any kind of paper, chintz or linen, should be given two coats of shellac or clear varnish after they are finished. An antique appearance may be added if, after the first coat of shellac, you rub on with a rag a little brown tube oil paint and then rub most of it off again.

The possible ways of decorating plain or marbleized wallpaper screens are legion. When pictures are applied, they are usually put near the top of the panels, one to each. These may be old prints, old maps, steel engravings, pictures of old-fashioned dress designs, such as those from 'Godey's Lady's Book', silhouettes, even the time-yellowed pages from old music books. Reproductions of Watteau and Fragonard pictures, in color, are particularly attractive on a bedroom screen. Pages from old botanical books, showing drawings of bright-hued flowers, can be used effectively, and the same is true of butterflies and birds.

If you are ambitious to try your hand at painting, unusual effects may be achieved by painting a solid background on canvas or wallboard with ordinary wall paint, and then putting on figures in flat color with tube paints, or with gold or silver. If your artistic ability is limited, these figures may be applied with a stencil.

Used, as here, in a room with plain walls the landscape or scenic screen contrasts interestingly

The combination of plain and patterned surface is very effective; apartment of Miss Ethel A. Reeve, Decorator

In the Mode

Veering winds of fashion sometimes lead astray—the vanity of mere fad in furnishing

WALTER A. DYER

AS I glance back over the past four or five decades (which, owing to an involuntary accumulation of years, I am able to do without reference to works of history) I am inclined to be optimistic concerning the growth of good taste in America in matters of household decoration and furnishing. A campaign of education has been carried on successfully since the beginning of the century. People in general understand better than ever before what constitutes good taste in the home. We have got rid of a lot of non-essential ornamentation and have been learning something about the doctrine of simplicity. The vogue for the antique has helped to supply a sound criterion. Manufacturers have at last responded, and I suppose there never has been a time when furniture of better design was offered to the general public at a reasonable cost. Oh yes, I am sure things are getting better!

Nevertheless, I cannot help feeling sometimes that we shall never be wholly out of danger so long as the yearning for novelty and the force of the fad exist. It is when we slavishly follow the fashions of the moment rather than sound principles that we get off the track.

It is doubtless true that if there had never been any desire for change and novelty, there would have been small progress in the development of the styles, but it is an historic fact that the periods of decadence have invariably followed a rush after the false gods of novelty. In every age it takes a steady head and a highly cultivated sense of discrimination to pick the wheat from the chaff of novelties. Most of us are safer if we follow well-established principles and let the changing fashions pass us by.

With the passing of the years I have gradually become more conservative in many things, more inclined to the belief that the unruly spirit in art is not necessarily the most progressive, and I am fond of quoting to youthful radicals a passage from Thomas Hardwick's biography of Sir William Chambers, the great English architect. Of Chambers's famous 'Treatise' Hardwick says: 'The truths it inculcates and the proportion and forms it recommends, the result of long experience and repeated observation of structures which have stood the test of centuries, cannot fail to impress upon every mind that there is a criterion of taste in architecture as well as in other liberal arts—that genius is consistent with rules—that novelty is not necessarily an improvement.'

It has always seemed to me that there is a world of truth worth pondering in those three phrases: 'there is a criterion of taste'; 'genius is consistent with rules'; 'novelty is not necessarily an improvement.' If we could only accept the full significance of the last one it would save us many false steps.

As I glance back over the afore-mentioned decades, I think I can see that most of our decorative mistakes have been due to popular enthusiasm for novelty, for a temporary vogue. I can remember the time when all sorts of useless and meaningless objects were tacked to the walls; when cat-tails were tied with ribbons and placed over the Landseer engraving in the parlor; when owls, made of gray crêpe paper, stuffed with cotton batting, and finished with water colors and shoe-button eyes, were wired to twigs and hung on the wall; when wooden mixing spoons were gilded and painted and hung; when toy rolling pins were covered with plush and furnished with little hooks on which to hang keys and button-hooks; when small and unreliable thermometers were sewed to plush-covered bellows; when gauze bags were filled with milkweed fluff and thrown over the corner of the crayon portrait of Uncle Ben in Masonic regalia which, heavily framed, stood on an easel in the corner; when a wheelbarrow load of souvenirs and miscellaneous bric-à-brac collected dust on the what-not; when young ladies with more industry than art painted forget-me-nots on everything that they did not embroider. It is not necessary to pile up the details; the grotesqueries of that Victorian age are sufficiently well remembered. We laugh at them now, but in their day they were quite *au fait*, and who wished to be behind the fashion?

I can remember Eastlake furniture, over-supplied with fragile ornamentation and tortured into curious curves. I can remember the vogue for the Japanese which came in with the first production of 'The Mikado.' I can remember the Oriental furor which followed in the late nineties, with those bizarre and unsanitary cosy corners. I can remember the waves of Art Noveau and Mission that swept the country.

These fads have had their day. Base upon no sound principles of good tast they died when they ceased to be nove ties. I think we shall never lose our artist bearings quite so completely again. Ar yet the danger of the passing vogue st abides. There will always be manufactu ers who can see profits in a strikir novelty; there will always be persons whom the latest thing is the most desi able.

Even persons still on the sunny side twenty will be able to recall many dec rative fads that have come and gon During the war the German helme either hung on the wall or put to son outlandish use, was considered a high desirable decorative adjunct to the hom and there was at least one enterprisir manufacturer who made and sold hu dreds—perhaps thousands—of lam made of gun shells and other militar paraphernalia. Most of these are no dou now gathering dust in attics, the fashio having changed.

More recently the vogue has been f maps or for old prints, even antique fas ion plates from 'Godey's Lady's Book These maps have been torn from o atlases and carefully pasted on lam shades and waste-baskets—quite the i teresting and modish thing. But I fanc we shall see none of them a few yea hence.

It is difficult sometimes not to be a tracted by the modish thing. That is wh is advertised, what is urged upon us b the merchant. Salespeople in store drilled in the demands of fashion, do n greatly help us in our effort to preser our conservatism and our individualit When you enter a department store f the purpose of purchasing pale yello curtain material with which to comple the carefully thought-out color scheme a chamber, it is a bit exasperating to b told that bedroom windows are not wea ing that shade this season.

It would be absurd, of course, to insi that all modish things are bad and ther fore to be shunned, but one needs to r member that people are like sheep in th following of a vogue and that when w seek to be fashionable there are sever hundred thousand other Americans wh are trying to be fashionable in exactl the same way at the same time. The ide home reflects the (*continued on page 57*

Photograph by Gus Wetzler

AUTUMN-CROCUS CLEVERLY PLANTED

When the clear pink chalices of Colchicum stand up nakedly from the earth in September they lend a very welcome touch of color. They are best put into a wild woodland garden effect when their luscious masses of foliage make lively mats of green in spring. The ripening leaves, about midsummer, in the well-trimmed border strike a certain note of untidiness but in a woodland glade they do not seem out of place. After the leaves have completely died down the flowers burst forth. Colchicums may be planted in the summer time before the flowers start, and prefer a light sandy loam heavily enriched, and partial shade. Old bulbs may be divided in August. Photographed in the naturalistic garden at Lochdoon, Cleveland, Ohio, property of Mrs. B. Lowenstein and Mrs. E. N. Newbury

Drifts of Daffodils which make a lovely pattern between the trees at Knollwood Farm, Portchester, N. Y.

Our Own Elysian Fields

Planting in naturalistic manner—nature's happiest effects come when you give her a free hand

ETHEL A. S. PECKHAM

EARLY poets and writers seem to have visualized heaven as a succession of fair meadows besprinkled with flowers among which the rewarded souls were privileged to wander. It is an attractive idea and it is possible for us to have Elysian Fields of our very own where we can meander with the friends of this earth and now. In really rural districts there is great opportunity for retaining the natural features of a location and adapting the house and style of garden to them rather than trying to change conditions and produce an alien effect. Many people, upon being advised to try a 'natural' effect in their gardens jump to the conclusion that they will then have untidiness, and they exclaim that they like everything to be neat. But there are several sorts of neatness and of untidiness—nature's ways are none of them disagreeable. When a tree falls in the depths of the woods moss soon forms upon it, Ferns come, other broken branches sprout thickly and things right themselves—by the addition of a different kind of beauty—but beauty all the same.

When we take a small (or large) section of rocky, wooded country and build a house, we too often perch it on the top of everything like a Russian witch's hut, ready to turn around on its legs at our command. We clear off the rocks, cut away most of the trees and undergrowth, and fill up the gullies, making everything as level as possible. Then we plant grass seed.

The two curses of the American countryside appear to me to be *leveling* ground and *sowing grass seed!* It is, no doubt, all a part of our desire for standardizatio and lack of the wish to encourage i dividuality. Perhaps we are really a sh people and fear to be conspicuous. If w were all individual we would be quite a invisible as we are when we are all alik

Because I feel this very deeply I war gardens managed differently, whethe large or small. I want the very best qualit of plant material, not only new varietie but rare and unusual plants and ol standbys of proved worth, all togethe with a high standard of cultivation. An I would like that neatness that goes wit weedless paths and terraces, tidily cu hedges, securely hidden compost-heap and reserve supplies. There might be glory in a row of the huge Dahlias or can obtain with the intensive cultur used for shows, but there can be n

elusive charm in such a planting. The same fine creatures properly placed in a group with other plants will produce a lasting satisfaction. It is nearly all, then, a matter of cleverness and thought in the arrangement of the plant material.

First must be considered the plants' likes and dislikes as to conditions—exposure and soil—then their height, shape and color and then we must think of the general effect desired. Nature adapts her plants to the country purely by the growing conditions they find. Have they rich, swampy soil, they grow lush and tall; is it arid and hot, they are usually low and creeping; where it is perfectly flat, with soil of medium depth and richness, you get an even growth and type of plant.

I have always regretted that I blasted away rocks found just below the surface to make room for flower-beds. I know now that I should have scraped away the earth and exposed the rock and no doubt would have been able to have had a nice hollow with a rock-garden in it. As a matter of economy it is far better to adapt your plan to the nature of the land because all this blowing up of rocks, filling of valleys and cutting down of trees necessitates labor and that costs dear.

In the flower-beds arrange your plants in groups that blend into each other the way they would in a meadow of wild flowers. Bring occasionally a taller plant to the front to break the even-edged effect of the formal garden. Stake the tall plants but do not set them in serried rows. In choosing stakes, have them of a dark green without any white top or elegant bird roosting there! When I first attempted a garden, a dear half-blind, old lady neighbor asked me what was the line of white flowers I had in bloom along my porch. I was ashamed to have to tell her they were but a row of white-tipped stakes marking some Gladiolus bulbs that could not bloom for six weeks at the very least!

Let your plants be so close together that they show as little as possible of the soil—Scillas, Tulips and white Wisteria flowering in the author's own garden

Nature's happiest effects come when you let her have a free hand—Dogwood and Hawthorn (left), Scilla and Wisteria (right) at 'Langwaite,' Mrs. Peckham's New Rochelle home

And then, let your plants be so close together that they may just develop properly and show as little of the soil between as possible. Plants in their wild state grow close together and thrive, for they enjoy company. If you have a bit of lawn on the edge of a wood or a small orchard or a meadow, then 'go wild.' Bulbs will help you to do this, your only care being to see that when grown in grass this latter is not cut until the foliage of the bulbous plants has ripened off.

My ideal meadow-like piece of lawn would be one running up to trees or woods or with groups of trees here and there. Where the grass is poor and thin because of shade in summer and because the roots of trees have taken the moisture, I would use short, early spring bulbs such as Siberian Squill, Snowdrops, Eranthis and Crocuses. Under trees with low, spreading branches where there is a growth of wiry, short grass or even upon what was shaven lawn in autumn, I would put drifts of Guinea-hen-flower (Fritillaria meleagris). On the edges of the woods where there is longer grass, or even running right into open reaches among the trees, would go the Narcissus of the poeticus and leedsi groups and here would be some Summer-snowflakes and Scilla nutans. Primulas and Mertensias would be found here too with Epimediums and Trilliums for edgings of semi-shaded paths. Farther out in the sun would be long colonies of Daffodils arranged so they passed from one variety into another without too sudden a change between the strength of color or the difference in shape.

On the sunny sides of large trees would be plantations of the taller blue Grape Hyacinths and among the Daffodils would be sweeps of blue Camassias. This meadow-land would be mown for hay in early July and if it were to be a lawn for the rest of the summer I would keep it mown; but the ideal way to suit my fancy would be to cut the grass for some weeks, say from the Fourth of July until the last day of August, then stop. The grass would come again, low and green and all among it would spring up mauve Crocus zonatus.

These delight to grow in grass and they will bloom for about ten days or a fortnight. If you want a very tidy and shaven effect during the winter there would be no objection to running the mowing machine about in early October when the leaves and rough grass can be raked off.

When naturalizing plants there are several things to be considered. If it is a matter of a field one only has to think of effect from the places which will be most frequented and whether there is any marked prevailing wind (shown by trees or bushes in the vicinity) or whether the ground has any pronounced slope to it. If there is a decided slant to trees, all leaning in the same direction, you can know that the heavy winds and storms usually come from one quarter and the large, wide ends of the drifts of plants should be *towards* the direction from which the wind blows with the scattered seedlings at the other end, as if they had been blown there by these winds. If the ground is sloping and there is no decided sign of a prevailing wind, put the heavier masses at the bottom as if water had tended to wash most of the plants down hill. Always be sure to try to have drifts going across the main vistas as when they go in the direction that one is looking, half the effect is lost.

There are two lines of thought to have in the back of your mind while making natural plantings along the borders of a path or road, no matter what material your roads, etc., are made of. Either the road has been cut through a district whe the flowers already were growing or el plants which were already established o side of a path have seeded themselv across the line of division. These effec are procured by continuing the drif of each variety across the path, et either by making them much larger tha they would have been or else by contin ing those that come near the edges, acros being careful to keep an effect of a pr vailing wind, for, even if there is no suc wind, you just make it!

Do not repeat the same combinatio too often. If there is a large mass on o side, try to have a smaller touch of th same thing somewhere near on the opp site side. If there is a conflict of directio in a case where a view from a house go with, rather than across a side of a valle put your drifts at a slight angle. This also a good method to pursue when the is a straight road or path. It would loo badly to have all the drifts going acro at right angles to the road. A curvin path will adjust itself, as it were, for you keep a prevailing wind in mind th path will wander around through it at wi Do not buy mixed bulbs and do not m your plants or bulbs when about to plan

While in nature the forms of a variet will vary considerably in color, plan keep themselves in color patches and th effect is in streaks and not in a preci pattern of dots. It is better to wait a fe years for a rich, flowery effect and pla bulbs rather too thinly than too thickl for they increase very rapidly and to close a planting at the beginning will a ways have a crowded appearance. Leav some spots open. If you wish it to be a flowers, alternate your open spaces s they are formed by the foliage of stretch of plants not yet in bloom. This will giv you a succession.

The delicate gray-blue of Canada Phlox and the pale yellow of Tulip Miss Willmott play in fine harmony along and across this garden path at 'Langwaite'

Oh Yes, You Can Use a Hotbed!

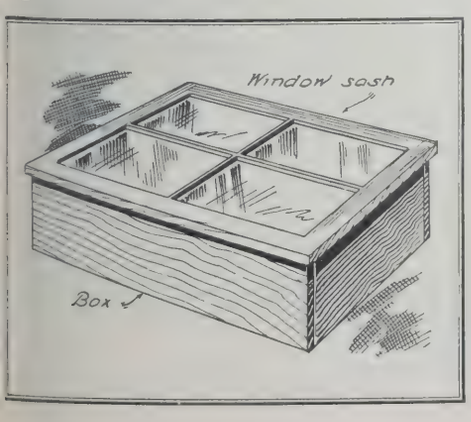
Where to put it and how to make it

DALE R. VAN HORN

A HOTBED, if properly made and used, will pay handsome dividends even though it stands unused eleven months in the year! It is like the jack under the back seat in the car—seldom needed, but mighty handy when the time comes.

The simplest hotbed consists of a box and a piece of glass. And the principle is the same through all the sizes, kinds, and shapes ever made. Sometimes glass cloth is used instead of glass as the fabric readily adapts itself to the shape of the top, and it is cheaper. By building the top frames of 1 or 2 inch lumber, then covering both the top and bottom sides of this with the glass cloth, you will have a dead air space that is an excellent protection against cold. From a hotbed costing $4 for materials you should be able to realize $40 extra for produce. The early garden with its beans and peas and lettuce and radishes ready to use 10 days or 2 weeks earlier than the regular garden, will give handsome profits. The hotbed will make this possible.

Perhaps the simplest hotbed is the one contrived from a window sash for the top and a box made of 1 by 6 or 8 inch boards underneath. You can get a dry-goods box of the right size, or make one just for this purpose from a single board. To work best the box should be within 1 inch of the same size as the sash. This permits the lower edge of the sash to fit tightly all the way around. To insure a snug fit, tack a strip of thick cloth all around the top edge of the box. The bottom can be held in place with cleats or nailed from end to end. Even the small sash will protect an area approximating 4 square feet and in this space you can plant a large number of seeds. The soil should be very rich and kept quite moist. If the box is provided with handles, it can be carried indoors at night if desired.



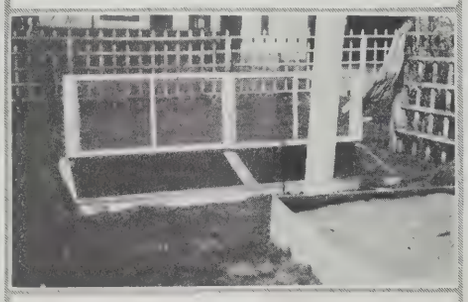
Some people make the mistake of attempting to use a corner of the basement for the early planting. If there is a furnace there, the coal fumes will prove as deadly to the plant growth as monoxide gas is to animals. There is one way, however, to utilize the basement if the furnace is fired with wood. That is to use a basement window on the south side for a regulator and build the hotbed directly outside against the house. By opening the window the warm air from the basement will keep the temperature of the hotbed above freezing, even though it is considerably colder than that outside. And even when coal or oil is used in the furnace, this can occasionally be done providing the heating plant is in a tight-built room by itself. The practice as a rule, though, is not to be recommended.

Many times the south side of the house is used for the hotbed location. It is an excellent protection against cold north winds and one side of the structure is already created. Just such an arrangement is shown at left. The sides and ends were built of scrap lumber with the length and breadth coinciding with the length and combined width of the 5 window sash used. Strips, cut from 2 by 2 inch material with $\frac{3}{4}$ inch shoulders on each side 1 inch deep, form secure supports for the sides of the sash. The pitch of the sash in this case being about 4 inches to the foot. Directly in the foreground in this same picture is the frame for a coldframe which is similar to a hotbed but doesn't pretend to offer as good a protection against cold as the other arrangement. The roof for this is simply a wooden frame covered with muslin.

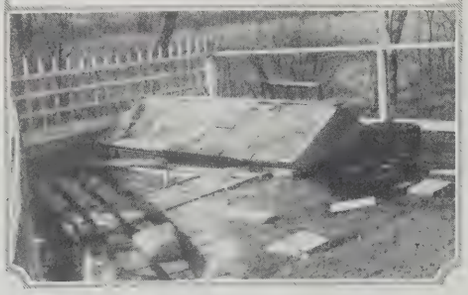
If you want a hotbed that is efficient and durable the one whose cross section is shown in the figure is hard to beat. It consists of tile walls and ends and has a top of either sash or treated cloth. The walls are easily laid up in cement-and-lime mortar and the dead-air cells offer good insulation. (*continued on page 573*)

Well built, permanent hotbeds on west side of a Nebraska greenhouse (*see page 573*)

Often the south side of a house provides an excellent location (described right)

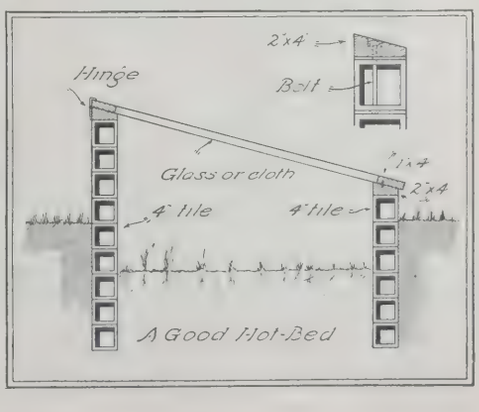


A double-purpose hotbed which serves as a sand box in summer (*text on page 573*)



Ideal for the little place is this hotbed with tile walls and two exposures (*see page 573*)

The simplest sort of homemade hotbed (left) and cross section (right) of a durable type (both described above)



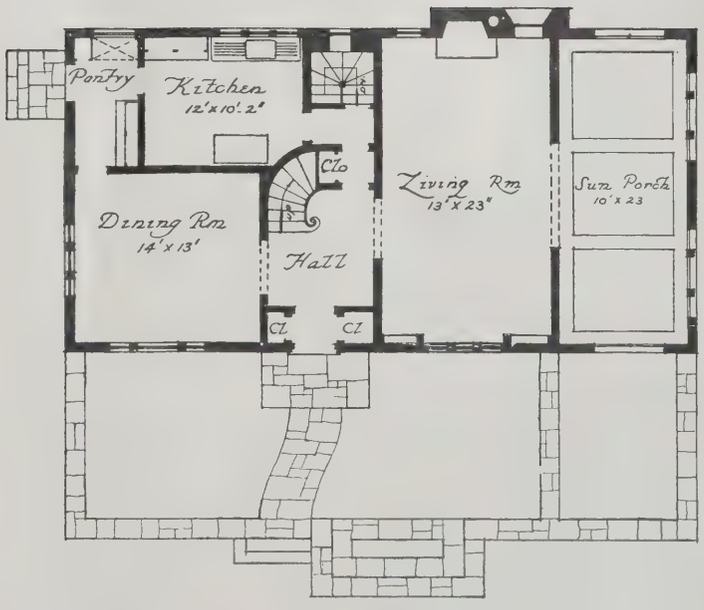
The picturesque is such an abused term that we hesitate to apply it to this distinguished small house which obviously, is picturesque but, equally obviously, something more

HOME OF MR. DONALD GROSSET

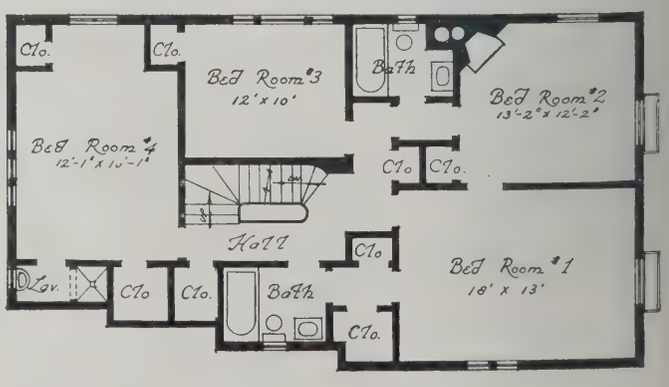
at Scarsdale, N. Y.

EDGAR & VERNA COOK SALOMONSKY, *Architects*

PHOTOGRAPHS BY JOHN WALLACE GILLIES, INC.



A plan practical, composed of the inevitable customary elements yet so imbued with what might be termed constructive imagination as to be actually more than ordinarily interesting



The thing termed 'style' is, generally speaking, too subtle for satisfactory analysis—nevertheless a thing unmistakably felt whenever encountered, whether in clothes or houses. All the details of this little dwelling have been handled with finesse—it is a modern house, stepping ahead of tradition, yet by no means discarding it

Here again in the interior we have the lingering richness of tradition without a too close adherence —in other words an ideal example of modern American architecture which is wise enough not to overlook past treasure yet sufficiently inventive to add a note of its own

Keeping Up With the Neighbors' Lawn

ALBERT A. HANSEN

Purdue University, Indiana

TURN first to the article by Prof. Hansen in the March number on 'Keeping Dandelions from Your Lawn.' Then read these composite questions and answers of the most asked things about lawn-keeping, compiled from Prof. Hansen's several hundreds of letters that have reached him this season.—The Editors

1. Fertilizer formula

What is meant by the formula 3-8-4 for a complete fertilizer such as was recommended in conjunction with sulphate of ammonia in fertilizing lawns, and where may this be purchased?

The formula 3-8-4 refers to a fertilizer containing 3 per cent. of ammonia (nitrogen), 8 per cent. of phosphoric acid and 4 per cent. of potash, a total of 15 per cent. of plant food. Were the formula expressed 6-12-8 the concentration of plant food would be greater, totaling 26 per cent.

Complete fertilizers, ready-mixed, are offered for sale by most dealers in fertilizers. It is not necessary to adhere to the particular formula suggested since almost any complete fertilizer used in conjunction with sulphate of ammonia will do but, if the dealer offers a choice, select the one containing the highest per cent. of nitrogen. Complete fertilizers cost but a few cents per pound if purchased from fertilizer dealers rather than in the form of expensive small packages offered by merchants who do not specialize in fertilizers.

The main reason for suggesting the use of a complete fertilizer with sulphate of ammonia is because the sulphate is well known to have an acid reaction in the soil which may be unfavorable to Bluegrass if an abundance of plant food is not present. The purpose of the complete fertilizer is to supply the plant food necessary for the Bluegrass to overcome the acid reaction of the sulphate.

2. Moss crowding grass

The worst problem on my lawn is the presence of moss, which crowds out the grass. How can I eradicate it?

Mix sulphate of ammonia with five parts of sand and sprinkle the mixture lightly over the moss at the rate of three pounds per hundred square feet following dew or rain when the vegetation is moist. Be careful to sprinkle evenly or burning of the turf may result. Experiment first on a small scale until you discover just the amount necessary to burn the moss without injuring the grass. Wait a month after the first application and, if beneficial results are secured, apply again but use just half the ordinary amount on a hot day.

3. Don't use lime!

When is the proper time to lime lawns? What kind of lime should be used and how much?

Never apply lime in any form to lawns since it encourages weeds and so discourages the grass. At the government experimental turf garden at Arlington, Virginia, there are over 400 plots undergoing various methods of treatment and it is very noticeable that the limed plots are the weediest in the series. Liming a lawn is time and money wasted.

4. Getting rid of thin spots

Our lawn is thin in spots that I have been reseeding every spring with little success. How can I overcome this difficulty?

Tests have shown that it is far more economical and satisfactory to spend one's time and money on fertilizer rather than seed under the conditions mentioned in your letter. Where there is any kind of a stand of Bluegrass at all, fertilize in the early spring with a 50-50 mixture of a complete fertilizer and sulphate of ammonia distributed evenly at the rate of 8 to 10 pounds per 1000 square feet and thoroughly watered in. Repeat a month later and again in the fall and a noticeable thickening of the grass will result. After the first year you can probably depend on sulphate of ammonia alone, applied during the spring and fall at the rate of 5 pounds per 1000 square feet and thoroughly watered in.

5. Can't get manure nowadays

Manure can no longer be obtained in our locality. What can I use in its place?

Bonemeal, sheep manure, cottonseed meal, tankage and soy bean meal are all organic fertilizers that may be used as substitutes where manure is not obtainable. Do not use at a greater rate than 20 pounds per 1000 square feet per application in order to avoid danger of burning the turf.

6. Winter blisters of dead grass

During the winter raised areas appeared in my lawn which have now become patches of dead grass. What is the remedy?

The trouble was due to 'blistering' of the lawn caused by the freezing and thawing weather of last winter. The grass roots were severed where the heaving or blisters occurred. If the turf had been rolled as soon as the blisters were formed the chances are that new roots would have been formed and little harm done. Your best remedy now is resodding the dead areas.

7. Grass under tree shade

There is a shady place in my lawn under some Norway Maples where no grass will will grow. How can I secure a stand of grass under these circumstances?

If the Maple roots are close to the surface where they are utilizing most of the moisture and nutrition, the grass will be unable to compete until a layer of at least four inches of good surface loam is added. If the roots are not shallow, try a mixture of equal parts of Bluegrass, Red Top, and Rough-stalked Meadowgrass known to the seed trade as Poa trivialis at the rate of 5 pounds per thousand square feet. The Rough-stalked Meadowgrass (this is an awkward, unfortunate name but the only one established in the seed trade) is the best of all shade grasses north of the Ohio River. It makes an excellent sod of good color and texture and blends well with Bluegrass although during particularly severe winters it may suffer from freezing.

8. Keep to recognised grasses

A year ago I seeded the lawn to an expensive grass mixture known as Herba Mira, called the 'boss of all bluegrasses' for which I paid $1.50 per pound. My lawn is now bumpy, being filled with tufts of tough grass. Will the sulphate of ammonia treatment help to secure a better texture?

A number of lawn seed fakes have been offered to the public under fanciful, high sounding trade names and for which high prices are asked. On analysis they are usually found to contain Meadow Fescue and other cheap, undesirable grasses. Your only recourse is to plow up or otherwise destroy the turf and start all over again, using a mixture of 3 parts of Bluegrass to one of Red Top, seeded during late August or early September.

9. Six inches top soil enough

Our lawn has always been poor, due to attempting to develop it on clayey foundation soil. We are planning on hauling in some new soil so as to make another start. How deep should the new layer be?

Turf grasses do not ordinarily penetrate very deeply into the soil, grasses being in the main surface feeders. From four to six inches should be sufficient.

Color and pattern is introduced into this very simple bathroom by means of the Numda rug, the bordered towels, and the tinted walls above the tile

Bathrooms for Color and Comfort

Smart and colorful equipment now succeeds the sanitary

FLORENCE BROBECK

MORE color in the bathroom has become the slogan of those who are building new homes and rebuilding the mistakes of the last thirty years. Even the renter has ample choice of plans with which to make his bathroom more attractive. Not for him are the wonderful new colored tiles and amazingly gay and interesting colored fixtures which the ceramicists have developed recently. These must usually be planned for when the house is built. But with a comparatively small expenditure, walls and floors may be changed, and decorative rugs, curtains, and accessories introduced.

In making over a bathroom the color scheme may be closely related to that of the other rooms or the hall, or it may be daring, in brilliant hues sharply contrasting. If the walls are to be painted choose a waterproof, good quality paint.

When wallpaper is used, the safest plan for effective color results is to first select an appropriate paper and then develop the scheme from the tints in its design. Some are glazed and already have a waterproofed surface but any paper may easily be glazed and made waterproof after it is on the walls. The choice of patterns need not be restricted to papers specifically designed for bathroom use for there are hundreds of others which are interesting in themselves and make good backgrounds. One airy design for such use shows a lily pond generously sprinkled with lotus blooms and pads and flights of lovely birds swooping above. The general scheme is apple green with yellow and orchid tints in the birds. One room in which this was used had window curtains of yellow dyed muslin held back by orchid muslin ties, the shower curtain was in the same material and colors. The fabric was first treated by a rubberizing process to make it waterproof—a process, which by the way, may be applied to any material for a few cents a yard. The rugs were of braided yellow, green, and orchid cotton, the bath mat was in the orchid tint, the towel initials and borders were the same shade and the soap dishes and cosmetic boxes and jars on the shelves were in yellow glass. The tiling which had already been built in the house was of the conventional white, but the tenant felt that even a year's residence entitled her to spend money on the walls and accessories. She also painted the woodwork and chose a soft green color for this to match the lily pads on the paper and a darker shade of green for the floor.

Among other papers well chosen for

bathrooms is one made in England, in white with blue sail boats. Another from France, has a white background on which are butterflies, trees, and flowers in brilliant colors; a paper to lend itself to a half dozen effective color schemes. From Belgium comes a pattern of Chinese inspiration with pink flowers, bold mandarins, and lovely ladies here and there on a satsuma-like background. One delightfully cool-looking paper is white with an all-over pattern of green trailing ivy; another brilliant effect may be had in panels of hollyhocks.

Recently star-sprinkled papers have become popular for many uses and the bathroom need not be omitted from the list of rooms in which such stars may shine. A blue paper sprinkled with silver stars is used in one bathroom where the rugs are blue, the tiling white, and the toilet accessories of silver and amethyst glass. The window curtains are in blue glazed muslin with amethyst glass holdbacks; the ceiling is papered with white paper sprinkled with the blue stars. In another bathroom where the star decoration was desired but where papering was considered too expensive, silver, blue, and gold-gummed stars of varying sizes were bought at a novelty paper store. These were stuck on the walls in scattered formations such as the Milky Way and other astronomical groups. Then the walls were varnished with a colorless varnish (to prevent the stars curling up with the steam from the bathtub). The rugs in this bathroom are blue, bottles and powder boxes in blue glass, and the curtains of blue washable sateen. A simple expedient this for the woman who must convert a bathroom in a rented house into something a little more livable.

Rather unique is the bathroom decorated by a woman in her Connecticut house and depending on Japanese prints for its inspiration.

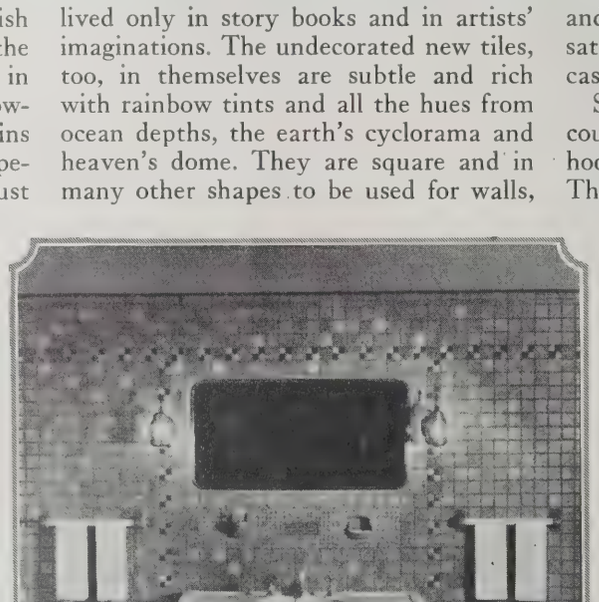
In another bathroom a frieze of silhouettes from the Canterbury Tales has been run around the room about six feet above the floor, and the figures are in black on a background of flat yellow. The walls have been lacquered in gold and the curtain at the little window is of Chinese red. The rug is black, the small bottles and accessories on the shelf above the basin red and black and gold. The woodwork is the same color as the walls with a delicate line of the red.

The application of prints and decalcomania designs and silhouettes, while a step on the way to painting directly on the wall, is simple enough for any kind of bathroom. It may be done with little expense, using

The color scheme in this bathroom was chosen because of the wallpaper; cool green, orchid and yellow, (courtesy of Thibaut, Inc.)

the recently revived art of decalcomania transfer or with prints and silhouettes as described.

Beasts and birds, playful or solemn, in naturalistic or conventionalized motifs, are now coming into bathroom decoration by a medium other than wallpaper, applied pictures, or the paint brush, and that is on the new tiles. These tiles abound with creatures which heretofore lived only in story books and in artists' imaginations. The undecorated new tiles, too, in themselves are subtle and rich with rainbow tints and all the hues from ocean depths, the earth's cyclorama and heaven's dome. They are square and in many other shapes to be used for walls,



Here colored tiles are used for walls, floor and around the tub. The color scheme is moss green, with a block border of blue and yellow

floor, and trimming, but while these offer possibilities for gracious and beautiful as well as easily cleaned rooms, the decorated tiles are rich in suggestions for achieving unusual effects.

Bathroom fixtures, tub, basin, and seats are now being made in colored vitreous china, as are the small pieces, towel racks, soap dishes, and tumbler holders. These small pieces are so designed by one manufacturer that they can be lifted off the wall to be cleaned or taken along when the tenant moves to a new home. The small fixtures are made in azure, fawn, pool green, orchid, and ebony, while the built-in devices made by another manufacturer may be had in blue, nile green, orchid, yellow, pale green, and black. This new ware is fired at extremely high heat, it is stain proof and scratch proof and its range of colors makes all sorts of attractive color schemes possible. Vitrolite for bathroom walls is also made in colors; jade, lavender, black, white, and ivory are now available in this product.

Department stores are showing more luxurious and beautiful cosmetic holders than ever before. There are all sizes, kinds and shapes in colored glass and beside this more familiar type, there are beautiful powder boxes, soap dishes, and all sorts of jars in imitation jade, many in compositions resembling amber, tortoise and ivory. Some lovely pieces look like satsuma for those who prefer an oriental caste to their bathroom.

Some amusing bath mats, washable, of course, as all bath mats must be, are hooked rugs in bird and animal designs. There are decorated rubber mats and gay matching sponges which look like dogs and cats, no doubt especially appreciated in a bathroom used by children. Turkish bath towel sets these days are decorated with a solemn whale blowing as he swims across a blue border. Fish and dolphin and other sea fellows abide on similar matching sets. The embroidered linen sets show colored borders, and in some instances the full name embroidered on in color.

Bathroom curtains may be of any fabric for the new processes will make taffeta and chintz equally waterproof. Linen and muslin, toile de Jouy, and others may be processed and used for the shower and window draperies.

Faïence, pottery, glass, and antiqued wrought-iron holders for ivy and flowerpots, for the bathroom walls and window ledges are no longer innovations. Growing plants are refreshing and are welcome to many bathrooms.

Orchid Lady (Spencer), a large purple-mauve having splashed petals and close-set flowers of the Gandavensis type

ian May on, creamy variety of ct introduction

The Sportsman's Chance in Gladiolus

An easy flower for the amateur to try his prentice hand in breeding novelties

FORMAN T. McLEAN

WE SEEK variety in our flowers as in most other things. For this reason, if for none other, an easily grown and dependable garden flower which has this essential property of variability is always welcome. How comes it that the Gladiolus has so preëminently developed this trait of mutability?

The thousands of varied orts now in existence only reflect that intability of form and habit shown by the ther thousands of bygone days. These ill pass out with changing fashions and astes, and will be replaced by yet other housands still to come. Our ideas in owers are ever changing, and the ladiolus changes with them. Some of he standard sorts, like America, Panama, 'eace, Pendleton, and Loveliness, are so horoughly dependable and satisfactory hat they hold their places amid the agaries of fashion. But they are the xceptions rather than the rule.

There appears to be a fascination about developing new varieties of Gladiolus. In the olden days, Dean Herbert of Manchester, Souchet of Fontainbleau, and Lemoine of Nancy were outstanding figures. Burbank, Groff, Childs, and many others have reared their thousands of seedlings. Now Clark Brown claims 50,000 seedlings a year, all different, from which he chooses a few that in his judgment are best suited to gain the notice of fickle dame fashion. Kunderd has bloomed hundreds of thousands of seedlings in a year, all different and all new. Diener in California, Errey in Australia, Pfitzer in Germany, Van Tubergen and many others in Holland, Mair in Scotland, Kelway in England—and we have mentioned only a very few of the many outstanding names—are intrigued by the endless possibilities of a flower in which tens of thousands of seedlings can be reared yearly, and no two are likely to be the same.

Sketch of Gladiolus flower showing position of stigmas and anthers essential in cross-pollination

The fusing together of the different races of Gladiolus—the striped and flaked Gandavensis, with white or lined throats, the bizarre blotched Lemoinei with their cup-shaped blooms, the wide open, brilliant spotted-throated Childsi and Nanceanus, and the vigorous weedy, hooded Primulinus with their slender graceful stalks—this merging process has brought out many sturdy new sorts, and the composite American race of Gladiolus continues to hold its high place.

The production of new kinds of Gladiolus is easy. Hand pollinated seed of high quality is obtainable from a number of reliable growers, and, indeed, the cross pollinating of Gladiolus is so easily done that any of us might try our hands at it with success. I have made a few scores of crosses myself in my spare moments, after office hours and on holidays.

The first step is to cover the flowers before they open, otherwise the bees

and humming birds will cross-pollinate them for us. Natural cross-pollination is the rule, and covering with small bags of paper, mosquito netting, or gauze will prevent it. One may even tie the petals of the flower by a bit of string around the end of the blossom before it unfolds. I have found this last to be both easy and satisfactory. Then, as soon as the flower starts to open, early in the morning, pinch out the stamens with a pair of tweezers. This needs to be done before the anthers open and begin to shed the powdery pollen, in order to prevent the flower from fertilizing itself with its own pollen. Incidentally, this last seldom happens, as Gladiolus flowers will seldom get seed when self-pollinated; but some varieties, especially among the Primulinus, will self-fertilize, and it is best to take the precaution.

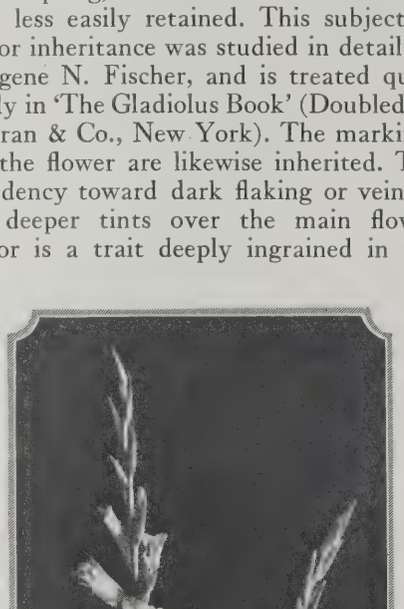
As soon as the flowers are fully open, the three-pronged pistil usually spreads its branches. Then they are ready to receive pollen from another flower. The simplest implement for this purpose is the tip of the forefinger, with which we may gently rub a little of the powdery pollen from the under surfaces of the elongated anthers, then brush this pollen over the stigmas of the covered flower, which is destined to produce the seed. Make sure that the feathery surfaces of the stigmas are well covered with pollen. Then cover up the flower again.

Half of the pleasure of hybridizing plants is in knowing the results of one's attempts, so it is usually worth while to label the flowers that have been crossed, and keep a record of them. Small white cardboard price tags with string loops on them are convenient and sufficiently lasting. Writing on them in soft pencil will usually last through the month required to develop and ripen the seed.

Gladiolus seed may be sown about as one would sow onions or radishes, except that it is slower to germinate and more care must be taken that the soil around them never dries. A covering of sacking, heavy paper, or a mulch of straw over the seed bed will help. The seed will germinate in about twenty days, coming up like fine grass, and many of the seedlings will flower the second year, if given good culture and a long growing season.

But if we really wish to take a hand in plant breeding, and get results from it that are comparable to those of the eminent breeders of horses, dogs, cattle, etc., there is more to it than the simple mechanical operations. There are many traits and peculiarities locked up in the heritage of the Gladiolus. Much of this diverse heredity can be utilized and combined into new and interesting seedlings by a little careful study and selection of parents to be used in hybridizing.

For instance, we can confidently work toward color improvement by carefully choosing our varieties to cross. Reds and Primulinus yellows are dominant colors which are transmitted readily from parent to offspring, while lavenders and whites are less easily retained. This subject of color inheritance was studied in detail by Eugene N. Fischer, and is treated quite fully in 'The Gladiolus Book' (Doubleday, Doran & Co., New York). The markings of the flower are likewise inherited. The tendency toward dark flaking or veining of deeper tints over the main flower color is a trait deeply ingrained in the



Annie Laurie, an interesting soft pink Ruffled

original race from which most of our garden varieties were derived, so this two-tint effect is easily brought out among seedlings, if either parent shows it at all.

Throat markings, which are among the greatest charms of the Gladiolus for many people, are heritable characters which may prove interesting. Throat markings are characteristic of the species of Gladiolus in the wild state, so those who like these delicate tracings and lacy filigrees may enjoy them in almost unlimited variety. But those who would eliminate them entirely and would have the Gladiolus in pure solid colors have a hard task ahead of them, for throat markings are inherent in the whole tribe.

The first of the garden hybrids, the Nanus and Colvillei strains, have long, lozenge-shaped blotches on the lower petals, each with a pale center and dark outline to the blotch. These early-flowering Nanus and Colvillei sorts apparently contributed little to our modern garden strain, but this curious Nanus type o markings is found in the newly introduce Herald Gladiolus from Holland, whic succeed under the ordinary garden cu ture as the Nanus and Colvillei do not.

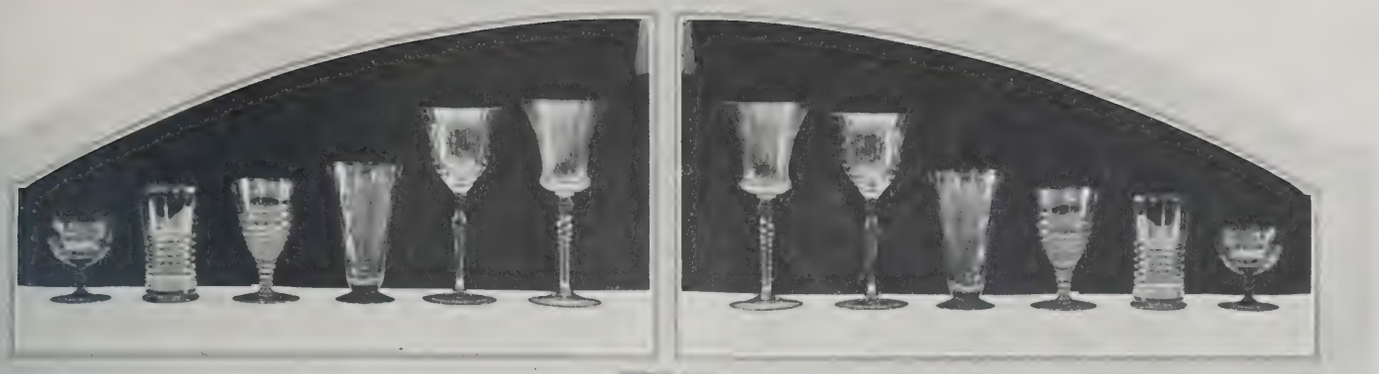
The old Gandavensis varieties o Europe, the progenitors of our America Childsi sorts, had two types of throat clear pale yellow or white, derived fro the red-and-yellow Parrot Gladiolus; o with heavy, dark center lines of violet purple, or maroon on the lower petals These came from the light-colored species and are most frequent in the white an light-colored varieties even to-day. Some times the two types of coloring are com bined, so they are evidently inherite independently of each other.

Next came the large throat blotches s conspicuous in Mrs. Frank Pendleton These were derived from the Purple-spot ted Gladiolus (G. purpureo-auratus) and in the species each large dark blotc was surrounded by an aura of deep yellow which is often, but not always, combine with the dark blotch in the hybrids.

An entirely different type of throa came in with the Childsi race. These ha light throats, spotted all over with fin dark dots. Finally, the Primulinus hy brids have contributed clearly define yellow throats to their descendants. A of these different kinds of markings an still others have been variously combine in our modern varieties, and the resul has been a multitude of intricate patterns some of them decidedly attractive an many of them odd and interesting. Th throat patterns alone of the Gladiolu may easily form the basis for an extende study.

In cultivation, several novel types o coloring have been developed, such a picotee edging, flushes, and shading on upper or lower petals. In fact, new breaks in form, color, and marking o the Gladiolus have just begun, and th future holds a bountiful store of new things for the observant grower of seed lings.

Beauty of form calls forth as divers opinions as do preferences in colors, bu the taste for such beauty seems to be a educated taste. The novice with flower seems to seek a pagan display of size an brilliance—and our gardeners in develop ing the garden Gladiolus have catered t this primitive taste, so that the standar Gladiolus is stiffly erect and full-flowered Fortunately, each great advance ha come about, not primarily through th whim of some brilliant breeder, bu through the incorporation of some new wild species into the already comple heritage of our garden sorts. The introduc tion of the wild strain has usually brough with it a bit of the slender woodlan grace of the wild (*continued on page 57*



The goblets, tumblers and sherbet glasses above show the interesting range of shapes and design in modern glassware, which also comes in a variety of colors. (Courtesy B. Altman & Co.)

Engraved glass plate in green, with finger bowl and finger bowl plate of an entirely different design, combine in a most harmonious unit for the dinner or luncheon table. (Courtesy B. Altman & Co.)

Glass Adds Gaiety to the Dining Table

New styles and shapes in color or clear crystal

HANNA TACHAU

IT IS about the dining table that the whole social life of a household revolves, whether the household be a formal and elaborate one, or ever so simple. The adornment and equipment of the dining table, therefore, has become a definite factor in decoration, and every accessory that helps to create a setting that shows a fine feeling for harmony and unity, including silver, china, glass, and linens—plays its part in furthering a more gracious way of living.

Not so very long ago, the table that groaned beneath the weight of heavy food and even heavier and more ornate glass and china, was considered one most desired. It was heaped with a miscellaneous lot of dishes and receptacles that were most confusing in their mass display. To-day, the effect of simplicity is the thing we strive for, whether it is the simplicity of true elegance, or whether it is the simplicity achieved by inexpensive things that are chosen with taste and discretion.

The dining table should give the appearance of a harmonious whole, which means that we must decide upon a color scheme and carry it through.

The reaction from Victorianism quickly eliminated everything from the table that was not essential either for beauty or service—so exit the many little side or individual dishes that used to clutter the table. Away with cut-glass relish boats, and toothpick holders, and oil and vinegar bottles!

Never before has there been a greater appreciation of glass and its infinite possibilities for beauty and charm. Perhaps the appeal of color that we are enjoying in all forms of decoration may account for it; at any rate, the heavy, machine-cut atrocities of the past era have disappeared forever, we hope, and we are demanding interesting, graceful, translucent glassware for table services and for flower holders and lamps, as well.

Every color is being translated into glass—blue, in varying tones, amethyst, amber that flashes motes of golden tints, green, that adapts itself to any decorative scheme, and rose and canary. Surely the number and variety of tones blown is proof of the remarkable vogue for colored glass.

One manufacturer has perfected a whole table service of domestic glass in various persuasive tints, which include platters and plates, vegetable dishes, soup plates, bouillon cups, coffee and tea cups and saucers, as well as the usual goblets, tumblers, wine glasses, bowls, and candlesticks. The service pieces are able to stand heat very satisfactorily, so this innovation is really a practical commodity. The patterns are open stock, so they can always be replaced, and they are fashioned from clear, colored glass which comes with or without an etched design. The price is about the same as for a moderately priced set of china.

But though colored glass is much in demand, it has by no means displaced the exquisite plain or engraved crystal for those who prefer and can afford it. Each fulfills a different need. Glass is selected to harmonize with certain tones that appear in the decoration of chinaware. But the woman of good taste would never use her crystal glassware that is chastely engraved or banded in gold, with gay, informal pottery, any more than she would expect sprightly glass of brilliant hues to associate tactfully with a stately dinner set of very fine quality and design. Formal entertaining requires the formality of glittering crystal that is engraved or cut or decorated with gold, and beautiful porcelain, the result of very highly specialized craftsmanship.

But these formal demands of entertaining need not discourage the hostess of simpler means who can rightfully indulge her love of color, and arrange her table to accord with her more modest surroundings and informal hospitality. If she has a special preference for a specific color, there is no difficulty in carrying out a table scheme of that hue, for there are hundreds of pieces of different styles from which to choose.

Almost every country is sending its native products here. England produces exquisite rock crystal, whose brilliant transparency and beautiful cut and engraved designs have justly become famous, but America is now making the same type of glass which successfully

rivals England's supremacy. Many old designs are being reproduced, and replicas of the celebrated Waterford glass can also be had. France is exporting crystal too, as well as other varieties of clear colors, among them her paste glass. But these types are more expensive and finer than many that come from the countries of Central and Southern Europe where they make an infinite variety of shapes and colors, all well executed, and many of them quite inexpensive.

Among the newest and most attractive ware we find footed tumblers and tall-stemmed goblets (the latest tendency is toward very tall stems), a very attractive set of blown glass in jade green, the goblets, octagonal in shape, ornamented with a pressed flower design; also an amber set of optic glass, with a bell-shaped goblet, salad plates to match with matching grape fruit or chilled cocktail glasses. Egg-shaped goblets with other harmonizing pieces can be had in rich, gleaming blues, green, and amber, for a moderate price, and there are colored glasses with white twisted stems or clear crystal with colored stems.

Those who wish to introduce the modernistic style of decoration into their homes, carrying this latest development as far as their dining table, can find shapes that have been designed especially to harmonize with the room's interior. But there is glassware that was made quite a number of years ago in Austria, emanating from the Hoffman School, and brought over here, the form of which lends itself to modernistic designs. Its

The lovely cut and engraved crystal bowl and candlesticks come in a set for the table or buffet. (Courtesy Ovington Bros. Co.)

lines are straightly vertical, terminating (in the goblets) in a sort of 'zoned' foot, similiar to the silhouette of many of the modernistic pieces.

The revived delight in old glass has brought forth reproductions of the old Pine Tree, Steigel, Sandwich and other types manufactured in the early days of America, which are delightfully naïve, and go well with Colonial furnishings. Spain has contributed the Catalonia glass, which, interesting in its crudity, is too heavy to handle with pleasure, although the flower bowls, vases, and individual plates are very pleasing and afford opportunities for charming flower arrangements. Other simple types showing the Spanish influence are being produced in Mexico and are sent here for disposal.

We are turning again to Venice who is building up her glass industries and is trying to bring back the days of her glory when she was the peer among glass blowers of the world. Venetian glass has a quality—delicate and subtle in form and color—all its own, which the craftsmen of other countries have never quite been able to attain. Roughly speaking, glass can be divided into three groups—that which is pressed in a mold, that which is blown in a mold, and that which is freely blown by experts without artificial aids of any kind.

For moderately priced table decorations, nothing is more delightful than flower bowls and candlesticks and compotes of glass, but they must be of the proper height, for those that are too high are awkward and obstruct the view of the guests, and those that are too low, look insignificant and uninteresting. Low candlesticks are now being much used with very tall, slender tapers whose light reaches above the level of one's eyes.

The luncheon table requires, of course, no candlesticks for the sake of light, but various other ornaments of glass or china are substituted. Vases decked with flowers or quaint porcelain figures and flower pieces are used. Recently, decorative finials, which fit into the wells of the candlesticks and harmonize with them, are utilized as one form of decoration, but not as an illuminating device.

The two end glasses were blown in moulds, patterned in relief, and are sea foam green. The center goblets are also blown in moulds, the third from the left being the famous 'Feronese' pattern. (Courtesy Black Knight Glass Co.)

The Human Touch in Handwrought Hardware

Planning ahead for 'antique' effects

ROSSITER SNYDER

)ERFECTION tires. An inaccurate circle, drawn free-hand, is much ore interesting to look at, day after day, an one made with a compass. We like e human touch. Machine-made things e cold, but the geometric imperfection hand-made things softens them.

This is the secret of the popularity of tique Colonial hardware. The human ich breathes from every line. We see w things in it every time we look, new mmer strokes, new unevenness. A new k front door which has been 'caressed' :h a few careless hammer strokes, and surface driven over with hand-wrought ke heads, intrigues the eye more than t were left plain.

The new plastic effects on walls are ob-ned, not with machines, but with such implements as whisk brooms, wads of newspaper, and trowels run at random. Here the touch of hands again gives pleasing texture which one can contemplate without fatigue.

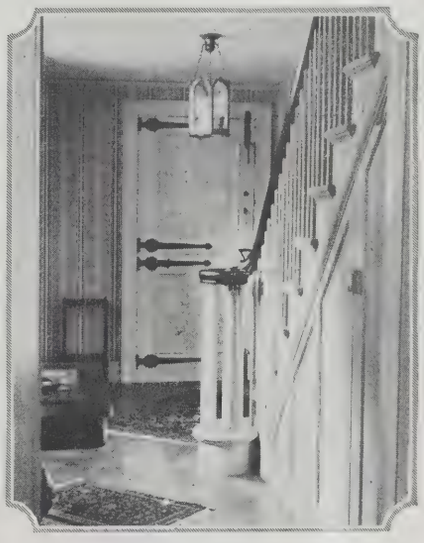
Hand-wrought hardware, applied to surfaces of doors and casings, shows how the doors are held in place, why they open and close without falling on the floor. The charm of English cottages and early Colonial houses rested in their frank showing of the elements of construction. Sitting under a bare, oak-beamed ceiling gives the occupant of the room a feeling of security. He sees with his eyes, unconsciously perhaps, how the structure above his head is held in place and is satisfied that no plaster will fall upon him, even while the youngsters pound upon the floor above, as they dance the mazes of the regular evening pillow fight.

Not only is it good modern practice to show what holds things together, but these elements are made beautiful in themselves. Therefore the hardware of to-day.

The genuine antique hinges of Colonial days require certain special treatment in carpenter work. A set of real H-L hinges cannot be applied to a door unless the surface of the door is flush with the trim of the casing. Doors are rarely set that way to-day unless the hardware treat-

modern garage in onial style at Essex, necticut, showing d-wrought hard-e made at the local smithy

Some of the original patterns at the ancient Pratt Village Smithy, Essex, Conn., where skilled artisans have worked for nine generations



Here again in this Essex homestead we find the human touch —more hardware by the village blacksmith

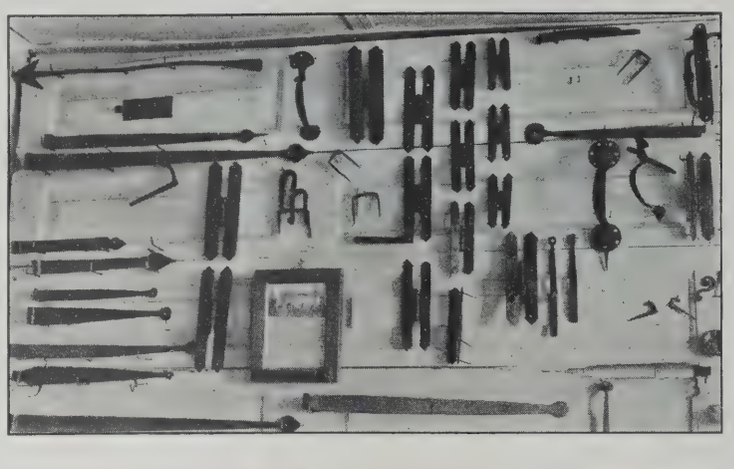
Shutter-stops at the Dickenson residence (hallway shown above) further evidence the strength and delicacy of metal handled by a master craftsman

ment is specially in mind when the plans are drawn.

The same is true of the application of these hinges to window shutters, china cupboards and the like. By the same token, the old-fashioned latch cannot be applied unless the working surfaces are flush. Otherwise the moldings and casing would need to be cut to admit the latch. This is impracticable.

The handle of the latch set may be applied to any door, regardless of its size, or the position in relation to its casing. These beautiful pieces, whether genuine antique, or modern reproductions, are well worthy of use. There are various combinations now available by which these sets are made to operate modern brass hardware concealed within the door. It is simply a matter of replacing doorknob with latch-motivation of the usual parts.

Adaptations of the ancient hinge patterns are now so made that, whereas modern hinges are used to hang the door in the accustomed way, yet the H-L patterns are applied to the surfaces adjoining the hinge butts and the whole painted in black. Only a microscope could detect the makeshift with the door shut.



Colonial hardware collected in the burned attic of the old Caldwell dwelling at Guilford, Conn., and dating back to 1740

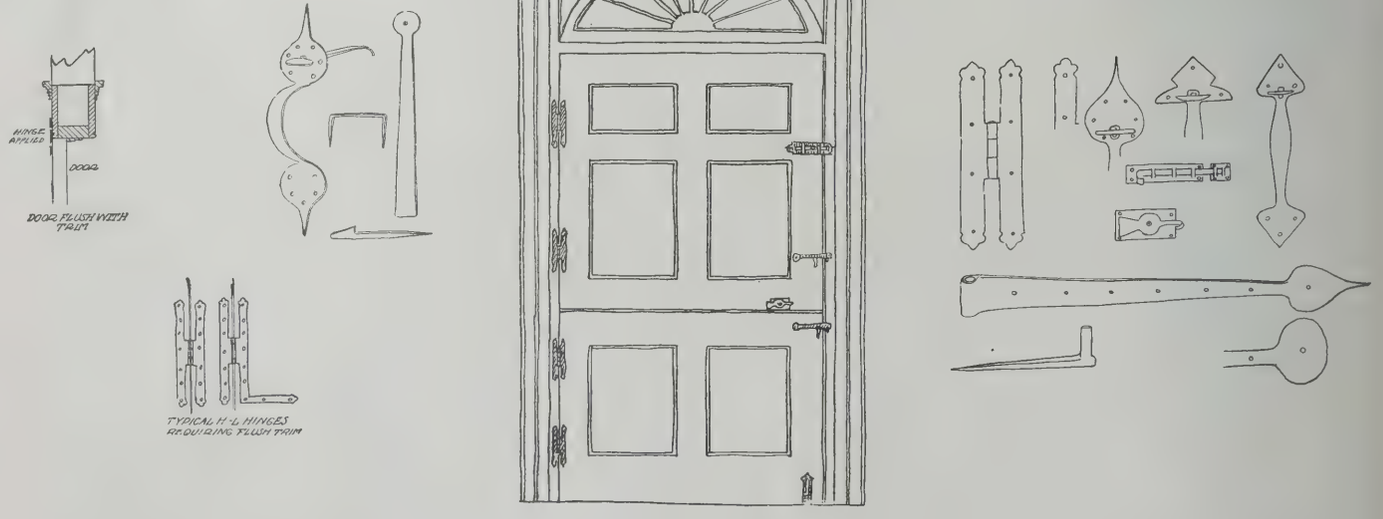
Typical H hinges add interest to this china closet in the old Caldwell house; other examples of its equipment shown above

In choosing modern 'antique' hardware for a new house, it is well to pick the approved patterns which have stood the test of time, rather than experimental variations which may or may not be an exact copy of some authentic piece. In the drawings are shown some of the most used hinges and latches of two centuries ago.

The double door with its necessary fittings was sketched from the old Caldwell homestead built in 1740 at Guilford, Connecticut. The photograph showing a collection of antique hardware nailed to an old panelling, shows some of the pieces recently rescued from the attic débris of this same house.

The photograph of the hall was taken in a modern Colonial style house in Essex Connecticut. In this house all the hardware used was modern reproduction of the antique. More than one hundred hinges were made to order by the village blacksmith who is shown standing beside his display board. The application of his work was extended even to the garage doors.

The old saying 'Where moth and rust doth consume' is being fast revised. What with lead, (*continued on page 574*)



These sketches were made by the author from originals at the Caldwell homestead and suggest possibilities for the home builder of today. The shapes are all very simple and virile, possible and suitable for satisfactory reproduction. If such hardware is to be used it should be planned for ahead, doors must be set flush with trim as shown in sketch above

Amemya

A beautiful use of familiar materials—shingle and stone offsetting and emphasizing each other —and the whole picture given point and piquancy by the beautifully designed gate. The pear tree with its laden boughs makes one wonder why fruiting trees are not oftener thus used. Home of Mrs. Monroe Douglas Robinson at Syosset, L. I.; James W. O'Connor, Architect; Ruth Dean, Landscape Architect

SHIMMERING AUGUST'S MOOD

KEYED TO THE SUN AND FRUITFULNESS

Tinkering About the House

When the home mechanic takes out his tool kit—practical ways of patching and repairing

PAUL GLENN HOLT

TINKERING about the house isn't always just a matter of saving cents, though incidentally it does do that! Some of us really enjoy poking about fixing things up 'as good as new'—personally I get a lot of fun and satisfaction out of it. And since there are probably a good many other men, maybe women too, who feel the same way, I'd like to pass on some bits of experience that may save lost motion.

PAINTING THE VALLEY

Wherever a roof, going in one direction, meets a roof going in another direction, there is a resulting hill or valley, where, unless special precautions are taken, moisture will seep into the house.

In all the valleys, the carpenter fits long strips of tin sheeting. The shingles, which lap over this tin, drain water into it and thence it is carried to the eaves-trough. The metal used most often for the valley and eaves-trough is coated sheet iron. Much of it is laid by carpenters just as it comes from the shop.

A little extra pains taken at the time of installing all such metal will extend its life to double and triple its normal span of years. Both sides of it should be well painted. The underside, although supposed to stay dry, actually is moist a large part of the time. Rust starts underneath unless it has been painted, and it meets the rust from above, unless this has been painted, in a surprisingly short time. Then it all leaks and must be torn out and done over.

Not only should valley tin and eaves-troughs be painted prior to installation, but the home-owner should ask his painter to recoat them every time the house is painted. With such care the life of such metal may be extended almost indefinitely.

FIXING SHAKY CHAIRS

Changing moisture conditions in the air of our homes often causes the glue in the furniture to crystallize and lose its hold. Chairs and tables which wobble are a nuisance that can be easily remedied by the home mechanic.

By using a mallet, or a hammer, protected at each stroke with a board, the chair or table may be knocked apart, its various pieces being so laid out that they will go back into the joints where they belong when reassembled. Old glue should be thoroughly removed by scraping and sandpapering. Home-made chip glue may be applied lightly to the joints, or a good prepared glue may be used. Those glues which require heating prior to use are usually of the most permanent holding power. Glue should be used at about the consistency of varnish, no thicker, and should not be thickly applied. It loses its holding power if applied when cool enough to jell.

On reassembling a chair, the rungs should be glued into the legs before the legs are glued into the seat. The front legs should go into the seat first, then the rear set. If any hole is so worn as to make a poor fit, a piece of cloth should be wrapped around the part to be inserted. The excess cloth may be cut off and the glue wiped off when it has jelled around the mend. If any clamping seems necessary, clothes-line may be tied in any direction around the parts and tightened by twisting a stick of wood between the lines. In twenty-four hours the glue is set and the chair may be refinished.

In general, tables are handled the same way. Frames are assembled first, the dowels handled the same as chair rungs. Last of all the tops are attached to the frames.

GLUES, PASTES AND TAPES

Who has not heard of white of egg and glue for mending broken china and glass? Yet we have given it up. In the last few years chemists have brought out china mending compounds such as Mar-Mora which really mend to stay. Moisten the edges, keep them tight for twenty-four hours. They will stay.

Chip glue may be dissolved and heated to a consistency of good varnish. It should be applied but lightly to the broken parts of furniture. Most failures come from glue too thick or too thickly applied.

If there is any doubt about our ability to make perfect chip glue, it is better to buy the prepared article than take a chance. Sure-Grip is an excellent brand. This may be used in mending furniture, woodwork, leather, and toys. If your linoleum is not to be cemented to the floor with linoleum cement on builder's felt, the next best thing is to glue strips of canvas, two inches wide, under every seam. Perfect joints may be obtained by this method.

Commercial wallpaper pastes are so much better than any made at home that they should always be used. Here again is a substance which prevents brittle dryness. There are similar pastes for applying asbestos papers to heating pipes. They penetrate the papers and make such a perfect bond to the pipes that careful cutting and fitting are unnecessary. Laps do not show.

Tirro and Tinker cloth adhesive tapes are useful menders. A torn fur coat may be well repaired by applying them to the inside of the skins.

DAMP-PROOFING CELLAR WALLS

Good concrete walls, properly tamped between forms, a sufficient proportion of cement having been used, should be dry and satisfactory for a cellar. These may be painted with Cemcoat and a smoother washable surface obtained. If, however, the walls have had forms only on the inside, and have been filled against an earth wall outside, losing their natural double seal, they will probably be damp. The same effect will exist if cement mortar is merely laid over imperfectly set stones. In this case, painting on a cement water-proofing compound may help, provided there is no pressure behind the entering moisture. Hydrocide is one of these 'water-killing' products.

THE LIMIT IN HOME ADHESIVES

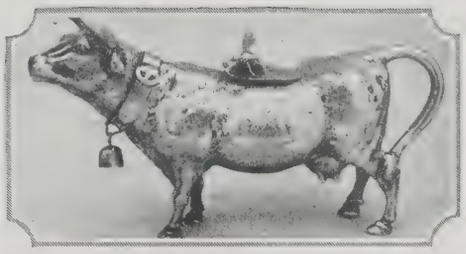
When shall we reach the end of plastic repair material? Somebody has actually invented a plastic cloth which is guaranteed to mend holes in stockings! So, let us give the chemists a cheer in their conquest of household mishaps.

WOOD PRESERVATIVES

As we descend into the cellar, we find wooden beams and floor joists exposed to unusual dampness. A good preservative may be easily applied to these by the handy man, with an ordinary paint brush. This will keep the beams from rot and splintering, will protect them from wood borers, and tend to keep the cellar clean and sanitary. Such products as Lignophol may also be used for the same purpose on raw new floors, and may later be finished with wax.

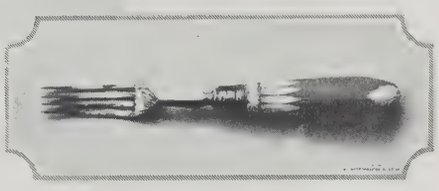
A perfect little gem in 18th century porcelain is this escritoire of the Louis XV period

Collectors of Delft ware are always fascinated by such amusing miniature cows



The old Dutch silversmiths loved to reproduce familiar objects—hence this oddly appropriate milk jug

Exquisite handles by Wedgwood make this knife and fork the envy of every housewife



For the Cabinet of the Collector

Fascinating rarities that will hold a place among the heirlooms of to-morrow

ESTHER SINGLETON

IN THIS day when colored glass is so fashionable, it is interesting to turn ck a couple of hundred years and consier the famous 'ruby glass' that was nented and perfected at Potsdam for derick William, Elector of Brandenrg, by Johann Kunckel, a native of sia.

This glowing ruby glass ranks as one ofthe triumphs of glass-making, and is el med by Bohemia as well as Germany, fo Johann Kunckel came from what is nv Czecho-Slovakia and learned to nke glass in that country that stood next roVenice in producing this most fragile ccmodity. The Kunckel ruby glass rarely comes within reach of the collector. Lvers of beautiful glass seldom have the pportunity of looking upon it as most nf he Kunckel glass is in Germany cherished in museums and private collections. Th Metropolitan Museum of New York ha recently been fortunate in acquiring a precious German collection of glass

Covered flagon of glowing ruby glass made by Johann Kunckel and ranking among the triumphs of this art

and from it we reproduce here one of Kunckel's handsome covered flagons.

Dutch Tiles: Among the products of the Dutch potteries, tiles were of great importance. They were brought to this country by the old Dutch merchants of New Amsterdam and used in quantity for interior decoration. Tiles are not uncommon in American families of Dutch descent. Like all antiques, certain types are of more value than others. It would be well for those persons who possess old Dutch tiles, to examine them carefully. Collectors now pay anywhere from $500 to $2,000 for a group of tiles making a complete picture. A collection of Dutch tiles brought, a few months ago at the American Galleries, the large sum of $34,308. A Flanders battle scene in manganese violet, made in Rotterdam in 1700 (384 tiles), brought $2,000; a representation of whaling boats in the Arctic in cobalt blue, $1,700; a marine in cobalt blue by Cornelius Boumeister, $1,500; and voyages of the Dutch to Nova Zembla (120 tiles), $900. Single tiles are also of value according to subject, maker and condition.

Delft Cows: China collectors love the

quaint Delftware figures of birds and animals, delightful in form, bright in color, and lustrous of glaze. No matter in what period or style a room may be furnished, these little ornaments are always admissible and add a piquant note to mantelpiece or cabinet. Travellers in Holland are always impressed with the number of cows they see grazing or lying down on the wet, green, spongelike *polders*, or meadows. Everywhere black and white cows, descendants of those painted by Paul Potter and other artists of the seventeenth century! Half the population of Holland seems to consist of cows! Consequently we find this animal a favorite in ceramic art. Such examples as shown on preceding page are frequently found in old Dutch homes and in the cabinets of modern collectors.

A Curious Milk Jug: Silversmiths and potters in the seventeenth century seem to have liked the same models. They either borrowed from each other, or they drew from the same source of inspiration. Dutch silversmiths loved to produce familiar objects—ships, windmills, figures of men, women and children, and animals are used in a great number of ways and for all kinds of objects, and the Rycks and other museums contain thousands of tiny articles in miniature—carriages and horses, furniture—in fact everything in use in a wealthy and luxurious household was produced on a small scale, as if for a race of fairies. Of course, the devoted cow was summoned frequently for her portrait in silver. What more fitting to the Dutch idea of humor than a milk jug in the form of a cow? So here is a very fine example of a silver milk jug, not intended for a nursery to delight the children, but for the tea-table of sturdy burgomasters, portly stadtholders and their buxom wives and daughters whom Jan Steen, Tenier, and Peter de Hooch loved to paint.

The Pembroke Table: How many persons know what a Pembroke table is? Here is one from the Leverhulme Collection made by Sheraton about 1790. It is of mahogany delicately inlaid with a design of honeysuckle and scrolls in satinwood. The Pembroke table (named for Lord Pembroke) was introduced in the time of Heppelwhite, who says in his book: 'They may be of various shapes. The long, square and oval are the most fashionable. These articles admit of the greatest elegance in the workmanship and ornaments. The tops are inlaid, painted, or varnished. The table is supplied with a drawer below the top, the leaves of which fall at the two sides of

From the Leverhulme collection is this small Pembroke table by Sheraton, about 1790, mahogany with classical design, honeysuckle and scrolls, of most delicate workmanship

the drawer. Sheraton's Pembroke tables differed little from those of Heppelwhite. Sheraton mentions that it is used for a gentleman or lady to breakfast on. The style of finishing these tables is very neat, sometimes bordering upon elegance, being at times made of satinwood.' The Pembroke table was always a de luxe piece of furniture, never met with outside a home of wealth and fashion. Jane Austen mentions the Pembroke table in her delightful novel, 'Emma,' in a way that makes us gather it was somewhat out of fashion in the early nineteenth century: 'Mr. Knightley must take his seat, the rest round the large modern circular table which Emma had introduced at Hartfield and which none but Emma could have had power to place there and persuade her father to use instead of the small-sized Pembroke, on which two of his daily meals had for forty years been crowded.'

A Porcelain Curio: It is not often one has a chance to illustrate furniture by means of porcelain, but this lovely piece of French china gives a perfect example of line, style and proportion of a Louis XV escritoire. It is intended for a litt boudoir piece to stand on a lady's dres ing-table and in which she could kee little trinkets. Sometimes, however, thes porcelain cabinets found their way int the doll-house of some little child o wealthy and noble parents.

Decorative Knives and Forks: Withi the past few years there has been grea development in the setting of the table The varieties of china and glass, cloth and napkins are infinite and much lati tude is given for individual taste. Amer ican tables are almost like flower gardens The handles of knives and forks are nov becoming of more importance and ar growing more decorative in form an color. The idea is not new, but is a retur to an older fashion. Great ingenuity wa expended on the handles of knives an forks in the eighteenth century and man materials—even bead work—were used and used beautifully. We give a knif and fork here with exquisite handles b Wedgwood. Happy the collector or th housewife fond of setting a distinguishe table who can find similar ones!

Silver Lustre: Lustre ware, which wa a cheap kind of china in its day, has at tracted collectors in recent years. I should be described as *metallized* war rather than *lustred*, for it has nothin in common with the gleaming and highl prized lustre ware of Persia, Spain, an Italy. The idea of those who made th English 'lustre' ware was to make a coat ing that imitated gold or silver. All th big Staffordshire potters tried their hand at it. Wedgwood produced gold lustre i 1776 and silver lustre in 1780 and lustr ware was made at the Spode Works There are three varieties: gold, silver an copper lustre, all of which were made i such quantity, sold at such low price and imported in such numbers that a collector has no difficulty in finding ex amples. Silver lustre is regarded as th best and was made in Staffordshire fron about 1785 to 1838. Silver lustre is eithe plain or decorated. The so-called 'silve resist' gets the name from a design painte upon the glazed surface with an adhesiv resisting mixture, after which the articl was plunged into a bath of platinum which coated all the surface except th decoration. The 'silver resist bird' is th most popular of all the patterns used.

Staffordshire silver lustre pitcher of the 18th century with the popular bird and foliage pattern

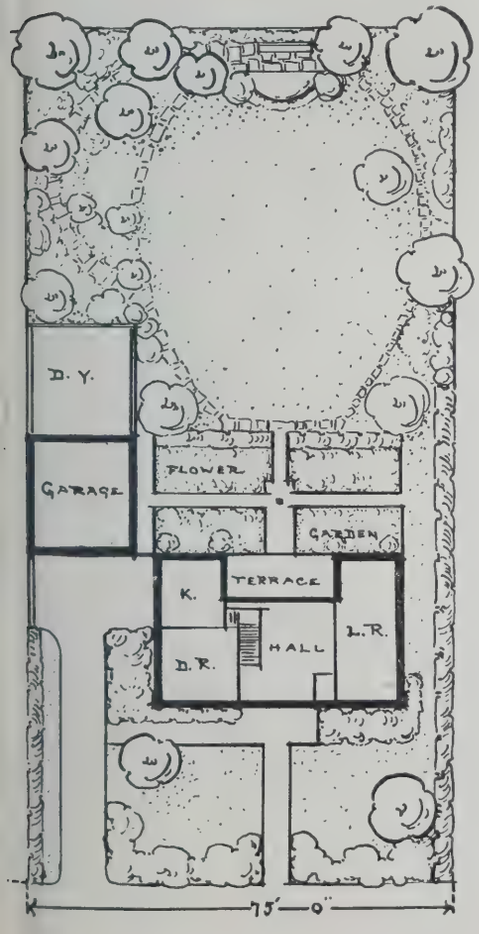
Among the products of the Dutch potteries, tiles were important and many are now valuable

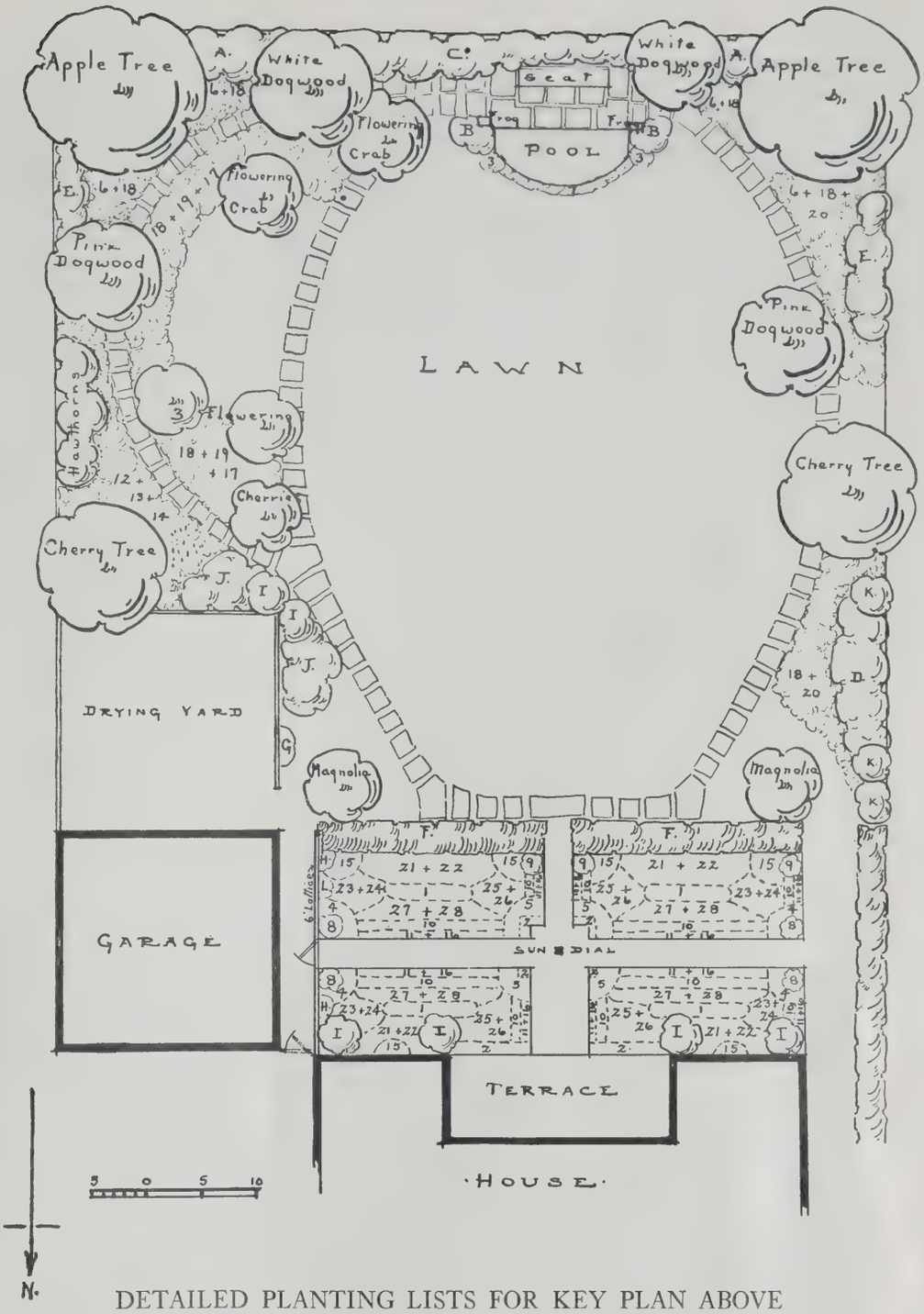
An Early Spring Garden

August is planting time for many of the bulbs suggested

ELEANOR ROCHE,
Landscape Architect
New York

IT IS assumed that the owner of a lot 75 by 150 feet will not want the most extensive planting, yet asks for some individuality and interesting material. Since it is to be an *early* spring garden it means shrubs and bulbs more than perennials, and as such a garden could not be planted with the kinds of bulbs that should be naturalized, the whole of the area at the back of the house is included in the present planting plan. The planting lists give the total number of each kind required, also the sizes to purchase—which will be a help to anyone not used to buying planting material. These prices are not the cheapest figures at which the sundry plants may be had, perhaps, but they are consistent prices for the best materials and good planting material costs good money.





DETAILED PLANTING LISTS FOR KEY PLAN ABOVE

(*Bulbs and Perennials on page 573*)

TREES.....$174.00

2 Apple trees—3′-4′	$50.00
2 Cherry trees—3′-4′	50.00
2 White Dogwood (Cornus florida)—5′-10′	15.00
2 Pink Dogwood (Cornus florida rubra)—3′-4′	10.00
3 Double Pink Flowering Cherry—4′-5′	7.00
5 Cockspur Thorn (Crataegus crusgalli)—4′-5′	15.00
2 Saucer Magnolia (Magnolia soulangeana)—5′-6′	20.00
2 Parkman Crab (Malus parkmanni)—4′-5′	7.00

SHRUBS AND VINES.....$139.00

Letter refers to index used on plan. Number following letter indicates total number needed.

A, 6—Flame Azalea (Azalea calendulacea)—24″-30″ clumps	$21.00
B, 2—Hardy Indian Azalea (Azalea ledifolium alba)—24″	$15.00
C, 7—Cornelian Cherry (Cornus mas)—6′-7′	14.00
D, 5—Pearl Bush (Exochorda grandiflora)—2′-3′	5.00
E, 7—Goldenbell (Forsythia intermedia)—4′-5′	10.50
F, 28—Privet Honeysuckle (Lonicera pileata)—12″-15″	28.00
G, 1—Climbing Rose Silver Moon, 2 years	1.00
H, 2—Climbing Rose Hiawatha, 2 years	2.00
I, 6—Common Lilac (Syringa vulgaris)—5′-6′	30.00
J, 7—Bridalwreath (Spirea prunifolia)—3′-4′	7.00
K, 3—Japanese Snowball (Viburnum plicatum)—3′-4′	4.50
L, 1—Chinese Wisteria (Wisteria sinensis)—3′-5′	1.00

(*continued on page 573*)

A RESTFUL GARDEN ON A WOODED HILLSIDE SITE

DESIGNED BY
MARION COFFIN
FOR
MR. JAMES TAYLOR
Oyster Bay, N. Y.

PHOTOGRAPHS BY
GEORGE H. VAN ANDA

'he ground slopes down efinitely from the residence the water's edge and has n abundance of native tree rowth. The problem pre- nted was to make a garden at would really fit the rroundings. The oval clear- nce was leveled and natu- alistic planting was done in e symmetrical beds, sur- unding the central area of lorful plants. This treat- ent gives a gardenesque rea (gay with herbaceous lants in season) that has ntry and egress by four alks, connecting with holly different features in e surroundings. The tea rden is just slightly above e main planting on which gives a pleasant view. The hole place is in harmonious eatment, and from several ots splendid open views re had out and across the djoining placid waters of Long Island Sound

This grassy mall is edged with Pallida Irises and Watsonias. Garden of Miss Eleanor Hague, Pasadena, California; Florence Yoch, Landscape Architect

Among the Irises on the left Queen Caterina lifts its soft mauve bloom; Rhein Nixe and the lovely yellow of Shekinah, right. In Mrs. Anson E. S. Peckham's garden, New Rochelle, N. Y.

Fifty Iris—And a Few More!

Outstanding kinds that run the gamut of season and color

GABRIELLE DRAKE McCOLL

HOW to select from the extended lists of Iris now on the market such varieties as are indeed worth while is likely to prove a perplexing question to all but the initiate few. The matter is further complicated for the average gardener by suggestions that there are yet to come from the hands of the hybridizers others which shall excel all those yet introduced. Let us see if we cannot bring some order out of chaos.

Perhaps it would be well to begin by saying that there are available to-day all the shades and colors in the Bearded Iris that the average gardener needs to paint his garden pictures, and he may use them through the months of spring into early summer. When he has secured those which in mass give strength of color to his garden then he may add successively such specimen varieties as by their description tempt him into purchase and may thus enjoy some novelty of bloom each year.

Four varieties of Dwarf Iris should be sufficient to accompany the Daffodils and Narcissus as they flower, and to furnish the borders of low green foliage which are so satisfactory through the year. Pumila atroviolacea, a deep purple; Schneecuppe, white; Eburna, pale creamy yellow; and Orange Queen—all are good investments.

Six of the Intermediates, which seem so accommodating as to size and time of blooming as they blend so beautifully with the Tulips, should satisfy our Iris needs for this next garden period. Kochi is of them all the richest in coloring, and most imposing in mass, standards and falls are claret-purple. Etta, creamy white, is very soft and very pretty, and a good connecting link anywhere. Planted with Amas it is effective, as are Charmant and Blue Boy when combined. Charmant is most interesting because of its peculiar shadings and markings and so is Blue Boy because of its unusual blue beard.

We shall list the white and purple Flags as one and carry over into our column of Tall Bearded the Intermediate Rose Unique because it blooms with the earliest of these. This deep pink Iris, while not large in flower nor tall in stalk, is possessed of wonderful carrying power. It glows from the uttermost depths of the garden, radiant and lovely.

In this last class of Tall Bearded Princess Beatrice is still the Iris paramount. One cannot have too much of the silvery blue of this or other forms of pallida dalmatica in the garden just as one cannot have too much of the blue sky above us. If we add Cecile Minturn which is an orchid pink and a most rapid multiplier and profuse bloomer, also Flavescens which is a soft yellow, we shall have a garden in pastel shades. To deepen the blues we might add Albert Victor or Violacea Grandiflora; Georgia will follow Cecile Minturn in the pink scale; and Aurea or Dawn will give us old gol for burnishment. Ma Mie is a daint white with blue plicata, and Quaker Lad is a fascinating blend. These are all stand ard varieties and we should not leave thi list which contains so many that are goo without adding Queen of May a delicat pink, Lohengrin orchid, Alcazar bluis violent and purple, Iris King yellow an brown, and Archeveque a very dar rich purple, deeper even than Kochi Parc de Neuilly is a handsome blue an I like Tom Tit below. We must hav Rhein Nixe—an Amoena with a ratin in the eighties and, though introduce nearly twenty years ago, still deservedl in high favor.

This gives us twenty of the low-price standard sorts and we should select as th first of our single specimen Iris the chea but very beautiful Isoline, the falls o which are purplish old rose and in thei drooping silkiness remind one of hounds ears. This Iris should be planted in semi shade to get its full beauty. We shall b tempted to purchase several of fragran sturdy White Knight.

Passing from the cheaper to higher, bu still reasonably, priced we shall choos first Ambassadeur. This is a wonderfu Iris, impressive in coloring, size, an texture. It quite dwarfs Roseway whic strikes a deeper note than Mt. Penn bu is lighter than the bright violet of Opera' standard ; perhaps it would welcome a

neighbor Morning Splendor. Seminole, which is the reddest of Iris, we must also have.

Souvenir de Mme. Gaudichau, Lent A. Williamson, Asia, Magnifica, Tenebrae, and Bruno—no garden should be without these, though I fear with the last we are getting out of the average gardener's and into the collector's class. Mentor is not dear and has the same dark coloring as Archeveque. We should also select as an indispensable Imperator—a glorified Caprice.

Leaving the violets, rich reds, and purples, we should choose from among the pinks the soft frilled Susan Bliss and the deeper pink Aphrodite. Wild Rose and Dream are very beautiful and we should by all means have the lovely blends Mme. Cheri and Mme. Durrand. The last, to my mind, is the most exquisitely tinted of all Iris; it is like nothing as much as a dainty yet imperious lady, whom nothing sordid or disagreeable has ever touched. Mme. Cheri has more brown but is charmingly haloed with a pink glow. It is a vigorous grower.

Mildred Presby is in a class by itself with its fine creamy standards and pansy-violet falls and should not be omitted from any list of desirables. Shekinah would be a good foil for this. It is a more beautiful yellow than Flavescens but more expensive, too. Afterglow is a blend of blue and gray and gold, and another beauty of sunset hues is called Olive Murrell.

If we like the Intermediate Blue Boy we shall wish to see its deep blue repeated in Harmony. Ballerine, Lord of June, and Lady Foster are most modest in price though not in size of flower. Sweet Lavender, Queen Caterina, and Mother of Pearl are soft mauve shades and very pleasing to behold.

With these thirty specimens of the Tall Bearded added to the masses of Standard varieties, and with the borders of Dwarf and the clumps of Intermediates among the Tulips and early blooming shrubs, one might well call an average Iris garden complete.

The A, B, C's of Color

Some simple rules about its use in household decoration

FRANCIS W. HENRY

ANY woman with an instinct for beauty can learn to use color understandingly, and the influence of color on our daily moods and lives can scarcely be overestimated, though it is for the most part an unnoticed, subconscious factor.

All the hues that we see around us—whether in nature or on deliberately decorated articles—are derived from nature's paint-box, the rainbow; and from the mixing of these primary hues or colors a great many shades and tints may be had. Roughly speaking, shades are the tones that run down into the dark side of the palette while tints range up into the lighter side.

The warm and advancing colors are red and yellow and mixtures containing both or either. These colors give an impression of warmth and vitality. Red is stimulating but very irritating to some people when spread over a large surface. The term 'advancing colors' is given to red and yellow because a surface covered with either seems nearer than a blue or green surface. All tones of red and yellow possess these attributes. Such hues impart warmth and cheer and seem to pull together the walls of a large and dreary room. Blue is the coldest tone and green the next. Green is made by combining yellow, which is a warm color, with blue. Pure green is very refreshing because made of an equal amount of a warm and cool color. It is practically neutral. Green is a cool hue when it contains more blue than yellow. When it contains more yellow we have what is known as a warm green. Blue and green are receding colors. Surfaces finished in either, in a light value, seem more distant. Colors tinged with green or blue have the attributes of coolness and distance. Pure gray, black, and white are perfect neutrals. Pure gray is a receding color and cool in effect. When tinged with blue or green it becomes more receding and cooler. It becomes warmer and advancing as it is tinged with pink or yellow. Small rooms with a too sunny exposure can be made to appear larger and less warm by the use of gray and the various shades of blue and green. The mastering of these simple facts will enable the reader to build any color scheme.

The amount of light received, the size and exposure of the room will determine whether warm or cool colors shall predominate. Cool colors should be in excess in sunny rooms, and warm colors in rooms that face north or northwest. In very large and light rooms the tone value of walls and furnishings should be darker, while the color values used in the decoration of smaller and darker rooms should be lighter. The needed warmth and brightness can be supplied by using warm, luminous tints such as yellowish gray, sand, light or pale yellow, and rich ivory.

Some colors reflect light and others absorb it. The walls of a room covered with moss green, chocolate brown, or a deep red are gloomy and depressing and irritating to the nervous system. Such interiors are hard to illuminate in the day time, and impossible at night, because such colors absorb a too large amount of light. Yellow is the most luminous of all colors, and walls that are decorated with it or any of its tints such as light creamy tan, bisque, ivory, or yellow-gray are always cheerful.

After a color scheme has been selected, decide upon the distribution of the colors through the room. Follow the very simple rule of covering the larger area with the most neutral color, small areas with the more positive and intense colors. Floor, walls, and ceiling should be decorated in neutral colors, light to medium in value, such as gray-green, ivory, sand, gray, putty, fawn. More positive and vital hues such as Venetian green, yellow, and robin's egg blue may, under special conditions, be employed in bedrooms and breakfast rooms. Objects placed against a neutral background are seen in their full value and intensity. Their effectiveness is destroyed by a background of vivid and positive color. The tone, color and pattern of rugs, floors, walls and ceilings should be unobtrusive for the hangings, pictures, and furniture to look their best. The furniture should be above the walls or background in intensity, being stronger and more positive in color and darker in value.

Two small connecting rooms are often decorated alike to give the appearance of spaciousness. But in large rooms that are connected with large openings, this does not answer and proves monotonous. The only method is to repeat in each room one or more colors from the adjoining room, emphasizing in each a different color.

UP-TO-DATE DEVICES

Glass-lined Dish

Some months ago we showed in these pages a silver platter fitted with a glass lining which could be easily removed and used for cooking. The glass was replaced in the platter only for serving. Here is a silver plated vegetable dish which conceals within its good-looking exterior a glass dish that holds a quart. It allows food to be served directly from the oven without transferring, and the food does not spend any time within a metal container. ($15)

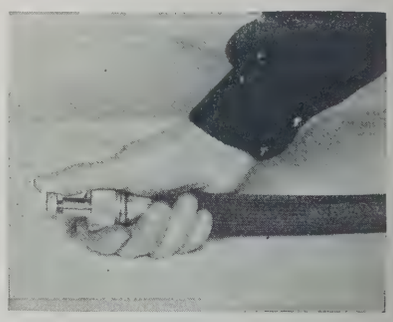
For Mason Jar Caps

Every year the housewife who does much preserving spends extra dollars on new caps for her mason jars. And the ones that she uses again she is never sure of: they may not be true, and decide to leak! Illustrated at right is a device which will prepare the edge of the jar caps for a good true seal before the preserves are put in the jars. Hold the cap in position, and with just a turn or two of the crank the edge of the cap will be straightened and in place. It is a very inexpensive utensil for preserving time, and a valuable one. ($1.25)

Tip-over Teapot

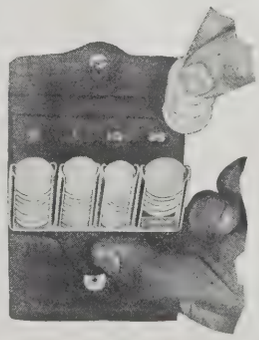
A teapot lying on its back with its spout sticking straight up in the air is indeed a strange sight! Yet that's what happens to this teapot. The teablossoms are put in a separate compartment at the top and the pot is tipped over on its back resting on its handle, while the tea is brewing. When the pot is set upright again the brewing process ceases, and the tea may be poured. It comes in green and brown, and the colors are dull and will harmonize with almost any color scheme on the table. It is a brand new idea, and very good. ($\frac{3}{4}$ pint size, $2.25; 1 pint $2.75; 1$\frac{1}{2}$ pint, $3.75; 2 pints $4.25)

New Hose Nozzle



The smallest nozzle you've ever seen, and one which you'll be glad to have to use when you're sprinkling your lawn these hot August nights. It is a one-hand-control hose nozzle, which does the same work as the biggest, most complicated mechanism. It throws a powerful, full stream, a coarse spray, a fine spray or the merest trickle—another turn and you have a positive shut-off. It is made of brass, machined from a solid brass rod—not cast or stamped. (35 cents)

For Your Coins



No doubt you have experienced the inconvenience of digging around in your pocket for pennies, nickles or dimes when buying your paper, paying your fare, etc., etc. A man has to fish deep down into his pockets, and a woman has to dig into her handbag. This coin holder does away with all that nuisance, is small and compact, and holds coins up to the amount of $4. It keeps them in separate rows, instantly accessible at all times, and there is also a place for coins larger than a quarter, and for bills. ($1 in cowhide; $1.50 in calfskin)

Ash Cup for Bridge Lamps

Ideal for a man's room is this new ash cup which snaps on any bridge lamp and is out of the way of elbows and arms that might accidentally tip over other trays. Moreover, such an ash tray takes up no room on the table, and is fine to have for use during a bridge game or near the table where papers are spread out and work is being done or letters written. It comes in harmonious colors, has as large a capacity as the ordinary ash tray, and is easily attachable. It costs but $1.

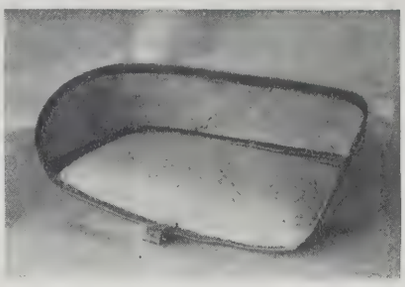
We are very glad to offer a shopping service to the readers of GARDEN & HOME BUILDER. Send your check for the article you wish to Shirley Paine (payable to her,) care Doubleday

FOR THE HOMEOWNER

New Hat Rack

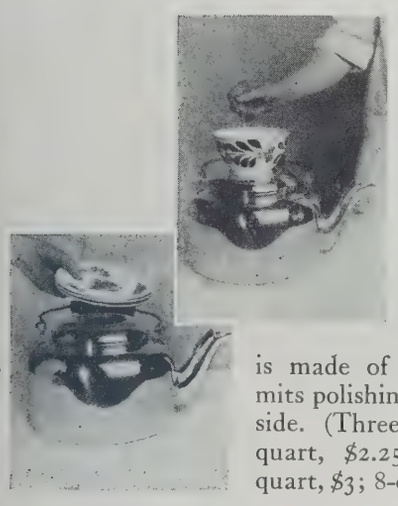
A place for your hats on the closet shelf without sacrificing space which may be utilized for other things—and all because of this remarkable little rack which has a flexible standard. A long cord is fastened to the top and when you wish to bring the hat within easy reach just pull the cord. The illustration shows the holder up and out of the way, and also down within reach. It is one more very practical addition to the goodly number of devices already on the market for increasing closet space. Enameled in blue, pink, and green. ($1 apiece, 3 for $2.85)

Kneeling Mat



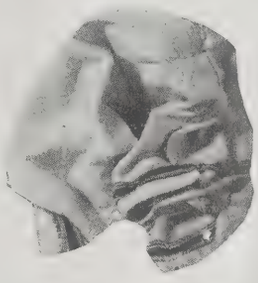
Here is a device which has two uses—as different as can be, yet equally important. In the summertime it may be used as a kneeling mat for the garden, and saves your knees and clothes. It is of woven Chinese rushes, is well padded and has a water-proof bottom. The sides are built high to protect the clothes, and for weeding the garden, or for picking low flowers it is fine. Its other use is as a kneeling mat for the scrub woman—light and easy to carry around. ($1.50)

Improved Teakettle



In the illustration at the left notice where the knob to the lid of the teakettle is. This kettle has a flat lid, and the knob is set into it—easy to reach, but out of the way. A child's food can be kept warm here, or plates may be heated in a jiffy. The kettle is made of aluminex, which permits polishing both inside and outside. (Three-quart size, $2.10; 4-quart, $2.25; 5-quart, $2.55; 7-quart, $3; 8-quart, $3.30)

Duster that Fits the Hand



For getting into small bits of carving, and corners, and cubby holes, nothing can surpass this duster which has a glove stitched in the center. Your hand fits into this, and enables you to dust carefully into whatever crevice your finger will poke. Of course, when dusting large surfaces you have the entire duster at your command, just as if the glove were not there. The material is treated in such a way as to make it 'dustless' and it comes in durable cloth with colored border. It is large enough to be very serviceable, yet not so large that it is bulky. (45 cents)

Stool and Step-ladder in One

A new stool which is at the same time a step ladder is something which belongs in every kitchen nowadays. It is very compact when closed, and is most convenient to use at the sink, when washing dishes, preparing vegetables, or doing any of the tedious odd jobs for long in one position. The stool stands twenty-four inches tall and has two steps, which are broad enough to eliminate the danger of falling. Finished in white, gray, green, red, blue, and yellow enamel, also birch varnished over oil stain. ($5)

Rapid Hedge Trimmer

A multiple shear designed for greater speed and more accuracy of alignment in hedge, bush, and tree trimming. This new trimmer will trim the sides of your hedge straight and smooth without a guide and also trim the top at a uniform height. The work is quickly and easily done because the tool cuts clean and in a straight line, either as you push it into the hedge or as you bring it towards you, making it double acting. It will cut all hedges, even the heaviest material. ($6.25)

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Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

Some Lily Surprises

DURING recent months I have noticed several communications in the magazine on the subject of Lilium auratum. Perhaps you will be interested to hear of our success with a bulb purchased six years ago. Owing to a delayed shipment the four bulbs were planted in previously prepared ground on December 5th, 1921, and blossomed in due time. The fall of 1922 the entire planting was rearranged and the Lily bulbs were transplanted in September along with a quantity of perennials. Two of them never reappeared, and the remaining two have not been disturbed in any way. The surface of the ground is kept stirred and weeds kept down; a coarse straw mulch covers them in winter and is carefully worked into the ground in the spring. Last year I managed to break off the top of a stalk that was near the surface; however, we had three stalks from the bulb planted there five years ago, and together they gave us thirty-nine flowers, all perfect, most of them of huge size.

Many people came to see the flowers and marvel at the stalks about forty-five inches tall. One internationally known flower grower said he had never seen such flowers on an auratum. When I told him we had left the bulb absolutely undisturbed for five years (lacking one month) he was amazed. The accompanying picture gives an idea of the beauty of the flowers, although the majesty of the full plant is not shown.

We also had two stalks of Lilium elegans in June, one with twenty-four blossoms, the other with eighteen. These are from separate bulbs. The larger one had a stalk two inches in diameter at the base and then flattened out toward the top to almost three inches in width. All the flowers were perfect, and the stalks were even taller than the others just mentioned.

It is very largely a clay soil that we have, not at all an ideal soil for such flowers. We have had repeatedly to break up great chunks of it with our hands, and some spent soil from a greenhouse bench has been worked in at odd times. I am sure the soil has had very little to do with the development of the bulbs—rather they have grown in spite of it. The bulbs were unusually good ones, and were planted about eight inches deep (no more). Last spring some coarse straw litter from the general manure heap was scattered on the border and later worked into the soil before I knew it. So it seems to me that the plants grew and flourished in spite of adverse conditions, of soil, of fertilizer, and planting.—Margaret Redmond, *Madison, N. J.*

The two bulbs of Lilium auratum, described above, which together gave thirty-nine flowers from stalks 45 inches tall

Wanted—Japanese Iris Seed

I SHOULD be most grateful if some of your readers could tell me of a good firm, either in this country or in Japan, from whom I could buy Japanese Iris seed. Mrs. Clark's article was so inspiring that I am eager to try raising the Iris from seed.—Mrs. Donald D. Cook, *Tenafly, N. J.*

Nicotine Spray for Larkspur Blacks

THAT piece on Larkspur 'blacks' in the April number of the magazine, is the most interesting story I've found in garden literature in a long time. I hope it is true, and have loaded up on Black Leaf 40 and lime-sulphur to start on them next week. My experience agrees with Dr. Morgan's or Dietz's in that lime doesn't seem to make much difference and that the pest is much worse in wet than dry seasons. Anyhow, we now know what the tobacco did in that old lime and tobacco dust formula which never looked sensible to me, on the theory that these blacks were a fungus, enzyme, or some condition arising from the soil. My sister had some fine Delphiniums last summer in soil naturally alkaline and with a good lime dressing and they got 'blacks,' which finally convinced me the lime wasn't the answer.—Sherman R. Duffy, *Chicago, Ill.*

Ten-Week Stock

IT IS surprising that one of the most satisfactory annuals for the garden seems to be overlooked by many flower lovers these days. This is the Ten-week Stock. It is an old-time favorite lately improved, is easily grown, showy, a free bloomer, and fragrant. In many localities it will begin blooming in June and continue until heavy frosts. In California, it is found in winter gardens, but though it thrives best in cool weather, it can be made to blossom through the summer if planted in partial shade and kept well watered. Yet not one in twenty of those who see it seems to know it, though all admire it greatly.

A package of the large-flowered, dwarf double, mixed seed sown in the hotbed in early spring and the plants reset to the garden the first of May, made the most brilliant display of anything there except the Zinnias.

The flowers were in soft, rich shades of cream, lavender, royal purple, cerise, and rose pink, as well as white. The pink predominated, blooming very profusely with large trusses of immense blossoms, the stems continuing to grow and form new buds at the ends until they became so top-heavy that I cut them for the house.

Stock will do well almost anywhere except in hot, dry locations. It appreciates rich soil, however, and responds to the application of fertilizer with an increase in the size and number of blossoms.—Esther E. Reeks, *Boulder, Colo.*

Ten-week Stock, one of the most satisfactory annuals, produces lovely flowers of lavender, purple, cerise, pink, or white

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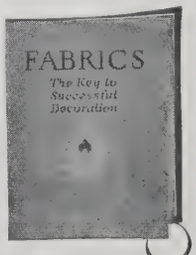

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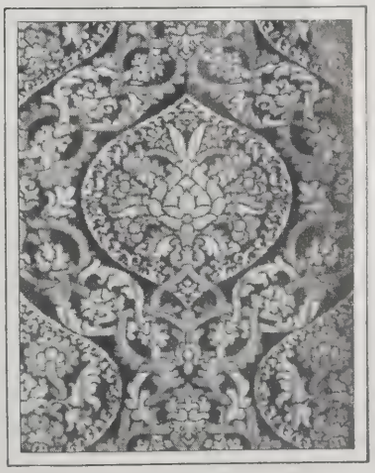

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YOUR GARDEN IN AUGUST

T. A. WESTON

In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind; Quincy, Ill., Denver, Colo.

IF AUGUST is normal we may expect violent rain storms and steamy humid days, the former are never really welcome, however dry it may have been previously, while the humid conditions are the bane of those who have seedlings and cuttings under frames. Under such conditions damping-off is difficult to fight although one has some measure of success if one uses Semesan freely and keeps a pan of lime in the frame to absorb some of the moisture. Seedlings of alpines as well as larger subjects should be pricked off into pots or boxes as soon as they have made real leaves, and plenty of ventilation given. The fact that one has to shade heavily against sunshine of course encourages damping-off, for a few minutes of hot sun will wipe out a potful of newly germinated Primulas or Meconopsis; on the other hand, damping-off is just as dangerous. Frames are not like greenhouses which, because of the greater volume of air in them, and the fact that seed pans, etc., are elevated well above the ground line, are infinitely better adapted to the raising of choice seedling perennials than frames. Even a non-heated house of 7 x 10 ft. or a little 5 x 7 ft. structure, such as many an English back-yarder can erect in a few hours for about $25, would help us amateur gardeners a lot. The day may yet come, however, when greenhouses will not be such luxuries as they are now; already it is possible to get hot water heating apparatus that will heat a fair-sized garage or workshop and burn 24 hours, without attention, for about $60, so perhaps some kindly greenhouse manufacturer will, in due course, turn out ready-made greenhouses in sections so that the handy man can erect them and derive the pleasure that even a small greenhouse can give.

Transplant Everything That Needs It

Some of the perennials sown in the open in May will be amply large enough for transplanting and the sooner Larkspurs, Foxgloves, Pyrethrums, Campanulas, etc., are shifted to a position where they can develop, the stronger they will be for withstanding the winter. And don't forget to spray everything with pyrox or arsenate of lead, for usually at this time, the climbing cutworms are very active, and particularly keep an eye on the frame containing pans and boxes of choicer seedlings. One cutworm or a few wood lice can do enormous damage and in one night sweep away a pot of seedlings which one has perhaps waited for a whole year to appear.

By this time all the Daffodils will have ripened off, and if it is desired to shift any, don't let August advance very far before digging the bulbs as their period of rest is short, most of them starting to make root almost as soon as the foliage dies away.

Propagating Time Is Here

Now is the time to divide Pyrethrums. Taken up in August and split with a large knife, several new pieces may be made from one large root. The divisions will get full hold before winter if the work is done now. Shifted in late fall the roots will often die, while if transplanted in spring, they will flower but little. This is a good propagating period by the way. If the long straggly growths of Violas are cut back, young growths will push up and will soon root in a shady place or the roots may be lifted and divided; such divisions will make strong plants for setting out in the fall.

Perennial Poppies, having made some new leaves after flowering, can be lifted and divided; and, if one wants to make a big stock, pieces of thick roots, about 3 in. long, inserted in sandy soil, will develop crowns and make fine plants for next season. Be sure, however, these root pieces are put in right end up; this can be assured if the top is cut off straight and the base on the slant.

Keep Down the Weeds

When the weather permits keep the hoe at work, not only in the borders, but among the Roses and among the seedlings that have been transplanted. A deluge of rain invariably means the ground is flattened down unless one has everything mulched with peat moss. This is an excellent material for the purpose but it cannot be used too freely year after year, otherwise one's ground may become too acid. In a general way, more cultivated plants can tolerate a moderately acid soil than otherwise, but that is not to say that everything will put up with conditions such as Azaleas and Rhododendrons luxuriate in. My own soil, being woodland, is fairly acid and the only things that are not happy are the crucifiers. On such a soil the gardener must use lime regularly where Honesty, Wallflowers, Cheiranthus allioni and all the cabbage tribe are planted.

Primroses Again

During this month we divide and replant our Primroses; the increasing of most sorts is fairly easy. The Polyanthus, and many of the Asiatic types, can be divided into single crowns if need be, though I prefer two or three crowns; and planted on good ground and watered during dry spells, they will make vigorous growth during the fall. The Auriculas are, perhaps, the slowest of all; they take three or four years before they flower from seed and afterwards are very slow to make new crowns.

Dividing the Irises

Now is the time to see about dividing the Irises. So long as they are healthy it is not absolutely essential to shift them; I have huge clumps of German Iris five years planted, on a rock-faced bank, that this year carried as many as 40 spikes. The Japanese varieties can also be lifted and divided as well as the early pumila and intermedia varieties, and also the miniature cristata forms. The bulbous Spanish, English, and Dutch Irises ought to have been listed by now, but if you know where they are and want to insure thorough ripening, get them up and lay in boxes in a frame where they can have a good drying, but do not expose to sunshine. Plant again in October. If planted early in autumn, they may make too much growth before winter and the loss of foliage is apt to kill them. Last November I planted a lot (early in the month) and they were not even covered with straw. I gave them up as lost, but almost to a bulb, they appeared in April and proved a credit to the Pacific Coast grower—one of the very few who are producing these gloriously beautiful bulbous Irises.

Cut over the Rambler Roses if not already done. Cut out all wood that flowered and tie in all the new growths of the current season. Tie up all perennials that need it, and don't neglect the Dahlias which will be growing fast and need constant tying and disbudding. The Chrysanthemums, too, will require tying up and those that show buds should have the growths around the buds removed to insure their development.

In the Vegetable Garden

Sow now for late crops Beans, Carrots, Radish, Lettuce, Beets, and Chinese Cabbage. Indeed, it is not much use sowing the Chinese Cabbage earlier as it invariably bolts to seed. A sowing of Spinach can also be made and there's a sporting chance with an (*continued on page 588*)

"Pray let me stay with the Nürnberg stove!"

TO little August in his humble home in Tyrol, the Nurnberg stove was a household god. So Ouida tells he touching story, beloved of generations of children.

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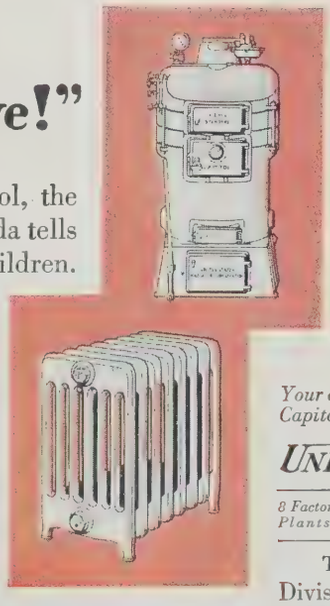
So utterly devoted to this giver of heat and ıealth, this light of the hearth, was August that vhen his poverty-stricken father sold it, he hid nside it. Two days and a night he traveled. Finally, arrived at the royal castle of Berg, he prang from its doors, pleading with the king who had ought it to be permitted to live near his great good riend, the Nurnberg stove.

The story of August may stand as symbolic of the ital part in daily living played by the modern heating lant. A friend of man, it diffuses not merely warmth, ut comfort and health. And it does so never-failingly if t is a Capitol boiler. Such is the certainty of *Guaranteed Heating*,* a written warranty of the exact number of radiators that any Capitol boiler will satisfactorily heat.



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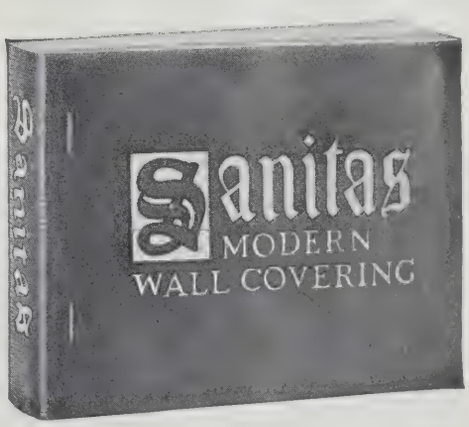

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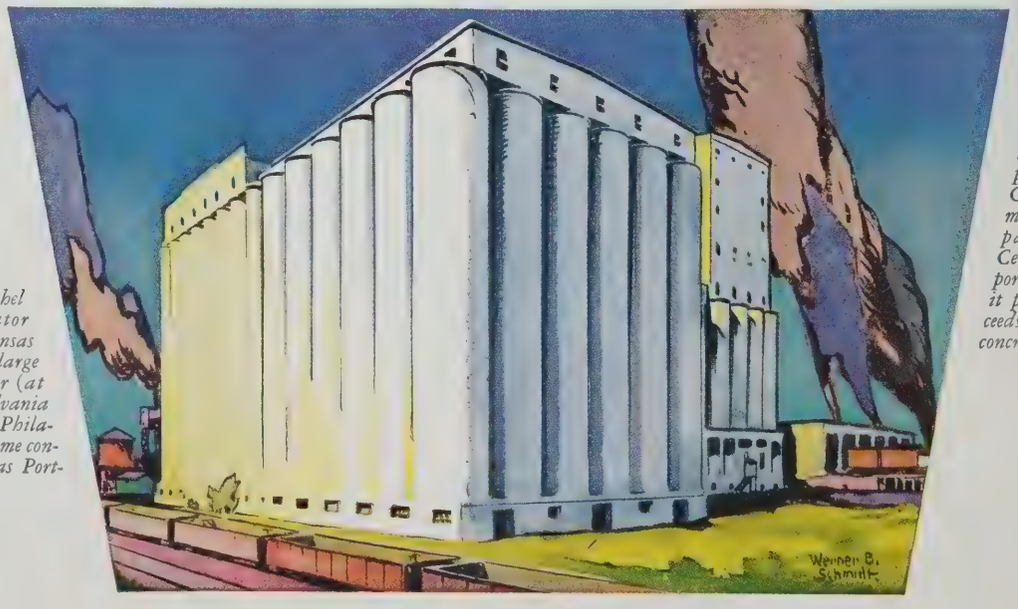

In 1927, the 1,100,000 bushel Wabash Railway Elevator (above) was erected at Kansas City. In 1916, the equally large Girard Point Elevator (at right) of the Pennsylvania Railroad was built at Philadelphia. Both by the same contractor. Both of Atlas Portland Cement.

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Curbed with tapestry brick and set in the center of a formal garden, this sixteen-foot circular basin boasts the most beautiful of pink Waterlilies (description below)

When You Build Your Garden Pool

Continued from page 530

·e flight of wide stone steps leading ɔm the lawn into the garden proper.

While in building the pool in the ɔhnson garden there was no attempt to ake it seem 'natural', the result is per-ıps less artificial in appearance than e average. In this connection, let me y that making a pool seem a natural ature is next to impossible.

Better be satisfied with charm and ɜauty and let 'naturalness' take care ' itself! The Johnson pool, in which r several summers three varieties of Vaterlilies, white, pink, and yellow, rew and bloomed, was always inter-ıting and beautiful, but palpably rtificial. In shape it was a rectangle ith a half circle at either end, measur-ıg over-all about six by ten feet. It ·as set squarely in the center of the arden. The cement work came up to ıe water level, and the top was finished ith two layers of thin flat stones with ıoss and lichens already on them. ·ock Pinks, perennial Alyssum, and a roup of tall blue Iris were set about and etween the stones of the edging. Here o pipes were laid. The pool was filled ·om the garden hose, and a simple rovision made for emptying it. As the ɔil was very dry and sandy, a good-·zed pit merely was dug under the ool site and filled with large stones. 'he two-inch opening in the bottom at ne end of the pool was closed with a ·edar plug which came nearly to the ırface of the water. When this was ulled out, the water ran away among he stones and, soon soaking off into the and, allowed the pool to be emptied ı an hour or so. In heavier soil a sewer connection or drain pipe would be necessary.

The last pool I mean to consider here, as well as the largest and probably the most effective of those I have constructed, lies in the center of a fairly large formal garden laid out in the shape of a square. The circular basin is sixteen feet across and about three feet deep. The curb is of tapestry brick placed on edge and mortered. About the pool is a pavement six feet wide of red flag stones, the interstices being filled with Maiden Pinks (Dianthus deltoides). These form a thick grassy turf at all times and in bloom a sheet of pink and white. Beyond the pavement is a low clipped evergreen hedge and the garden beds, rose beds first, then grass walks and beds of perennials, the whole surrounded by rose trellises and clipped Arborvitae hedges. Here we had room for six or seven tubs of Waterlilies about the outer margin of the pool. They outbid the Roses for popularity. The one appearing in the picture was a wonder of lovely pink, six inches or more across the bloom, and with massive crimple-edged leaves of nearly blood-red with darker blotches. They were all alike beautiful, though perhaps the two night-bloomers, with the consequent hint of mystery about them, had rather the best of it.

Here the usual piping was necessary, and, by the way, unless one knows something about laying pipes and fully realizes the danger of their bursting when they cannot be fully emptied in freezing weather, it is safer to let a plumber tend to this part of the (*continued on page 574*)

Pygmy Lilies growing in a half barrel placed among Phlox, Columbine, and Iris in the author's garden border and making the simplest of all possible pools (see page 574)

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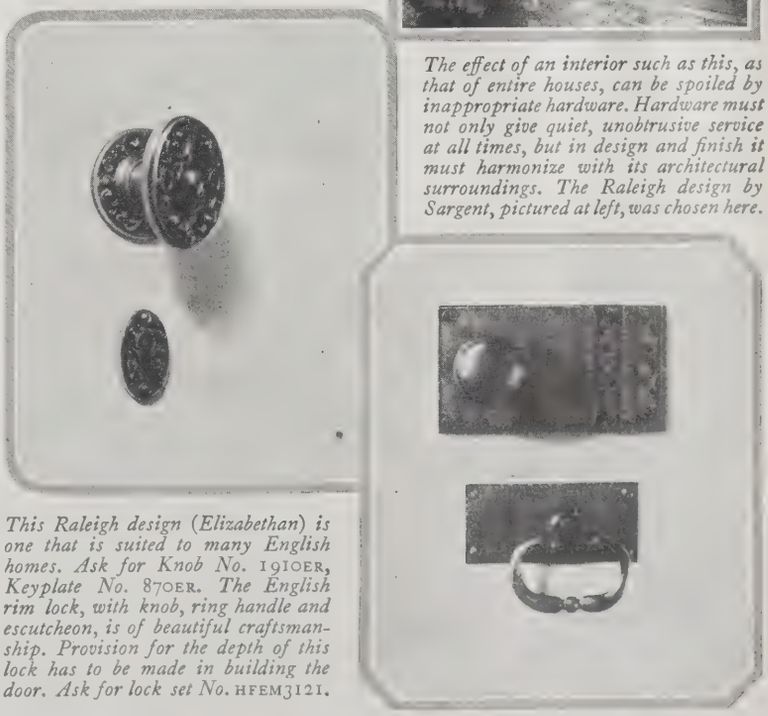
The effect of an interior such as this, as that of entire houses, can be spoiled by inappropriate hardware. Hardware must not only give quiet, unobtrusive service at all times, but in design and finish it must harmonize with its architectural surroundings. The Raleigh design by Sargent, pictured at left, was chosen here.



This Raleigh design (Elizabethan) is one that is suited to many English homes. Ask for Knob No. 1910ER, *Keyplate No.* 870ER. *The English rim lock, with knob, ring handle and escutcheon, is of beautiful craftsmanship. Provision for the depth of this lock has to be made in building the door. Ask for lock set No.* HFEM3121.

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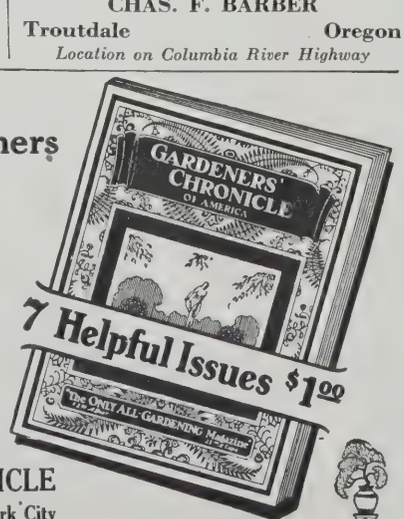

GARDENERS' CHRONICLE
522-A Fifth Ave. New York City

The Sportsman's Chance in Gladiolus

Continued from page 548

flowers. The blotched Lemoinei, the huge spotted-throated Childsi and Nanceanus, the still more brilliant Princeps, and, according to Kunderd, even his ruffled forms came from intercrossing with slender and delicate wild forms.

So the opportunities of the amateur hybridizer to manipulate both the color and form of the Gladiolus are many fold, and it will be a fortunate day for the flower when a number of true fanciers with artistic taste and imagination undertake the breeding of this facile flower for the pure pleasure of pleasing their fancies.

Unlike many of our garden flowers, the Gladiolus has a vast host of interesting and attractive primitive forms still in the wild state, awaiting but the touch of the magic wand of the hybridizer to bring forth new and strange garden forms. Many of these wild Gladiolus have never been in cultivation.

Inheritance in Gladiolus is not confined to flower patterns, colors, and forms. Important traits of growth, adaptability, leaf characters, height, and form of flower spike, branching, number of blooms open at one time, and amount of color in the buds are also transmitted from parent to offspring. Furthermore, many of these traits are inherited independently of one another, so that almost any combination of characters is possible.

This brings us to the original proposition: that there are possibilities of new and different kinds of Gladiolus literally by the millions. How does this come about? It is all very simple, if we but study the hereditary mechanism of the Gladiolus for a little.

It has been found that the heritage of all of the higher plants and animals is carried along in the nuclei of the cells, which increase by division. Dame Nature is so careful to preserve this whole heritage intact that this process of cell division in all plants and animals, and in Gladiolus, is a fine example of scrupulously exact partition of materials. In normal cell division in the growing roots, stems, and leaves of a Gladiolus, the dividing cell nucelus first disintegrates into short thick curved bodies, shaped like frankfurters. These bodies, because they are so easily stained with dyes, are called chromosomes or color bodies, and they are the carriers of the hereditary substance of the cell. To distribute this substance evenly between the two new cells, each color body splits in two lengthwise, and one half goes into each daughter cell. In the Gladiolu variety Theda there are 28, of thes color bodies, 14 derived from eac of its parents. There are thus reall 14 pairs of color bodies, each pai being made up of one color bod from each of the parents. Whethe it resembles most the one or the othe depends on the relative potency of th one or the other of the color bodies i the pairs. So the tendencies for hooded and for wide open blooms are bot present, and the hooding tendency i sufficiently potent to show clearly in th flower. Similarly, the flower shows bot a yellow throat characteristic of th Primulinus hybrids, and narrow pans violet throat lines such as characteriz several of the large-flowered sorts.

When Theda produces flowers, th reproductive cells in them, the pollen grains and embryo seeds or ovules each have only 14 color bodies. Of th 14 pairs of color bodies, one or the othe of each pair goes into each reproductiv cell. Since Theda is of mixed parentage some, if not all, of the members of these pairs are unlike each other. If all o them are unlike in at least one trai that they carry with them, and that i quite probable, then there would b 16,348 different kinds of pollen grains o ovules, each with a different sort o hereditary make-up, produced by thi one variety alone. Further, if thi variety were crossed with another cross bred variety of entirely different heri tage, and this is also quite possible, ther the total possibilities of differen seedlings from such a cross would b 268,435,456—over a quarter of a bil lion! It seems incredible, doesn't it But that figure is the fourteenth powe of four—you may compute it for your self.

Of course, there is a joker in it some where. In the first place, many of th seedlings would differ from each othe in obscure ways that would not ordina rily be noticed; in the character of thei bulblets, shape, or position of thei leaves, the amount of color in thei buds, or in the color of the flower stalk and in similar ways. So it comes abou that among hundreds of thousands o seedlings raised and flowered yearly the new varieties introduced can b counted by scores instead of hundreds and some people believe that even ther the named varieties that are introduced are not selected with sufficient care, bu if that is so, it is the fault of the choose and in no wise due to lack of materia from which to choose!

Insecticides by Airplane

AN AEROPLANE was used recently to dust a 200-acre cranberry bog at Pemberton, N. J., flying at an altitude of only 20 ft.

This method of controlling the rot disease was suggested to the cranberry growers by the use of the aeroplane to control the cotton boll weevil in the South. Aeroplane dusting is made possible by a special hopper invented by Alan L. Morse, formerly with the War Department. The dust is broken up in very fine particles, and the tremendous velocity with which it is shot from the plane by the backwash of the propellor, charges it with electricity, caus ing it to stick to the plants.

Under existing methods of controll ing the cranberry rot disease by mean of liquid poisons sprayed from hos carried out on the bogs, 15 men usin the most modern equipment need days to cover 200 acres, but with th aeroplane this area can be covered with dust in 40 minutes. This speed is a important gain, because the rot spread rapidly, once it starts. The dust use at 15 lbs to the acre is of copper sulphat and lime in a finely ground form. Wil wonders ever cease?

You Can Use a Hotbed

Continued from page 541

ombined with the sunken bed inside, lants in this hotbed will ordinarily ithstand temperatures as low as 10°. art of the above temperature is main- ined by the composition of the soil ithin, which is explained a little later.

To figure the number of tile needed, etermine the length and width of the otbed to be made. This should be de- rmined after choosing the kind of sash be used. If glass substitute is to be sed, then the size need only suffice for our needs. In figuring the total length, t the total length of the 5, 6 or more sh to be used, when laid side by side. ach end sash should fit in place with e outer edges flush with the end walls the hotbed.

Dig the pit 20 inches deep and square e corners. For the mortar mix 1 part ment to 3 parts screened sand, dry, en add ½ part of slaked lime. The lime important as it retains moisture in the ortar and prevents premature drying it. Cement, to cure properly, must re- ain moist for at least 24 hours, and hours will be better. Be sure to set e first row of tile square and *level.* nen build up the courses with joints proximating ½ inch in thickness both rtically and horizontally. The back all will have 9 courses—the front, 6. ip off the necessary tile for the ends give the general pitch, then cap with ortar and set 2 by 4 inch pieces in ace. As the drawing shows, bolts, ¼ by nches, are set *through* the top course at e end joints so that the 2 by 4 inch eces can be bolted fast. To prevent the ts from bothering with the sash fitting re 1 inch holes to a suitable depth, en turn the nut tight in these, cutting any protruding threaded top.

The frame or sash (depending upon ich is used) is then hinged to the per 2 by 4 inch piece as shown. Two nges should be used to each sash. If u use the cloth frame, these can be aced every 3 feet. Fill the hotbed with h earth mixed with fresh manure. If nvenient, fill the bottom 8 inches with unmixed manure. There will be a heating action then which will raise the temperature of the soil above.

A neat little hotbed that is ideal for the small town place is set in the earth, has tile walls and the roof is double with window sash on both sides. It is 8 feet long and 4 feet wide with the sash tight-fitting enough to make it practically weatherproof. Notches are cut in the sash to prevent water from collecting upon the glass. It is of course important that all wood be kept well painted and whenever a portion of the wall needs attention it should be fixed. The materials used are subjected to more than ordinary conditions with cold weather on one side and warm, moist air on the other.

A happy solution of the hotbed idea is where two storm windows form the top. The sides are of wide boards set in the back yard. The windows are removed in early spring when the hotbed is to be planted. They serve thus another purpose for another month. During the summer months, the box without the top is filled with sand and many a pleasant hour the youngsters spend in it. This bed should cost less than $5 without the sash. You can build it large enough to take two of the storm windows on the south side of your home.

And, going to the more pretentious hotbed, we have the lean-to on the west side of the greenhouse. The one shown at Mr. Frank Woods' estate at Lincoln, Nebraska, is 5 feet wide and approximately 34 feet long with the entire roof, side, and one end of sash. The roof is built solid with the side walls opening in sections.

By all means, if you haven't already done so, build a hotbed. It pays! Or if you don't want to actually build you can buy the equipment complete from the greenhouse builder. These concerns make the standard sash 3 x 6 ft. and the frame comes in multiple units. There is also a baby size frame for the very small garden.

An Early Spring Garden

Continued from page 557

PERENNIALS.....$111.50

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25, 50—Orange King, scarlet orange 2.75
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27, 60—General De Wet, shaded pink-orange . . 9.00
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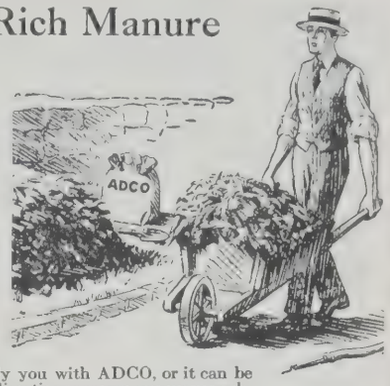

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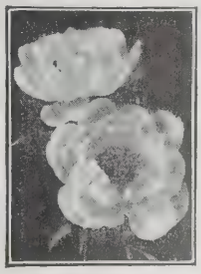

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In the Mode

Continued from page 536

personality of its owners, and individuality is not to be obtained by blindly following the fleeting fashion. 'Novelty is not necessarily an improvement.'

I visited a home the other day which was as modish as you could wish. It happened to be a city apartment, but that is not significant. It was a well furnished home, comfortable and not without beauty. In the livingroom there was the inevitable 'suite' of overstuffed furniture (davenport and two chairs), a reproduction of a wing armchair, a long, narrow table behind the davenport, a small half-moon table at one end and a magazine stand at the other, all arranged in the accepted manner. In one corner was a console radio set. The dining room contained a modern gateleg table in walnut and a set of almost William-and-Mary chairs.

It was perfectly good furniture; one could scarcely take exception to it save on the ground of conventionality. The modish incidentals were what chiefly attracted my attention—one of those limp, spider-legged dolls on the davenport, tea-biscuit cushions on the floor, a red-black-and-gold fabric draped over the bridge lamp, and other similar details. I guessed these to be the latest things in furnishing and was duly observant and impressed. But the most delicious bit of absurdity was one of those brass Cape Cod fire-lighters standing naïvely beside the gas log, new, shiny, unused, and radiating that artificial quaintness which is characteristic of the products of the up-to-date 'gift shoppe.'

Well, I have no desire to poke fun at a well appointed home which obviously gave its inmates complete satisfaction. There was nothing very bad in it, either in form or in color, but it seemed to me to be totally lacking in originality and personality. It was too utterly in the mode.

Perhaps many of us, lacking artistic imagination, may follow the fashions more safely than we may attempt to express our individuality in the home, especially as the fashions seem to be getting better and better all the time, but there is a criterion of taste which knows no mode, and the home which stands out because of its good taste and beauty is seldom the home whose owners are swept about by the veering winds of fashion.

When You Build Your Garden Pool

Continued from page 571

undertaking. And although almost anyone with a little courage and ingenuity can, on a pinch, do cement work, it is usually more advisable to let an experienced man engineer the making of forms and pouring of the cement. But be on hand to look after the artistic touches, or you may be sorry. Get a tractable man and impress upon him that the water and not the cement work is to be the raison d'être. His work should be sound and as unobtrusive as possible. While I have not given it a trial, I believe it would be advisable to use some dark brown pigment for coloring the cement. In this way the bottom of the basin would be less visible and the reflections clearer.

The intake for this pool was in the shape of a stand pipe rising just above the water surface at the center. Three very small holes were drilled in the cap screwed on the top of the pipe, from which the tiniest imaginable jets of water rose as the water was turned on at the side of the pool. These pipes were not embedded in the cement and could be taken out when the pool had to be drained and the roots stored in the cellar for winter. Care of course had to be exercised in the matter of letting the fountain play, and it was mainly on hot summer afternoons that the dainty spray was to be seen rising six feet high and drifting in the wind.

It needs little imagination to vision the peculiar charm and loveliness of a garden feature such as this. The gorgeous Lilies floating among broken bits of sky and fleecy cloud and the deep rich shadows in the reflections of the tall neighboring Elms, and the gracefully rising and falling water jets, made a well-nigh perfect picture. I am more and more out of patience with Sir Francis Bacon, who in his essay 'Of Gardens,' in that immortal collection foisted on most of us in our green, callow, and defenceless youth, lightly brushed all this away, for as you may not remember, he there set down in good ponderous English, 'but pools mar all, and make the garden unwholesome and full of frogs and flies.' Out upon him! For the mosquitoes he should have put a few goldfish in his pool; and as for the frogs, had he cultivated them and come to be on better terms with them, he would have found them cheerful fellows and worthy of respect.

Handwrought Hardware

Continued from page 552

slate, and copper shingles, not to mention other indestructible types, brass and wrought-iron plumbing, and rust resisting hand-wrought hardware throughout the house, the fear of consuming rust is being eliminated from our lives.

Perhaps in the past century new construction moved too fast for its foundations. Philosophers are pointing us back to learn something from the journey we have travelled. We must go back to fundamental things, lead, copper, wrought iron, and fashion these elements by hand if we would know the meaning of beauty and satisfaction that endures beyond a day.

The Colonial fathers of the country have suffered much in reputation at the hands of flippant historians, in an age of push-button bells and silvered doorknobs. But all honor to them for the lesson they have left behind in the value of a sledge and a strong right arm, an anvil and a clean fire, and a drop of honest perspiration, withal, to temper the cherry-red metal which has shaped itself into its rightful place in our modern lives.

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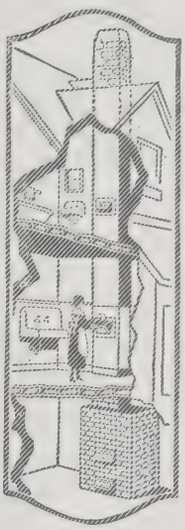

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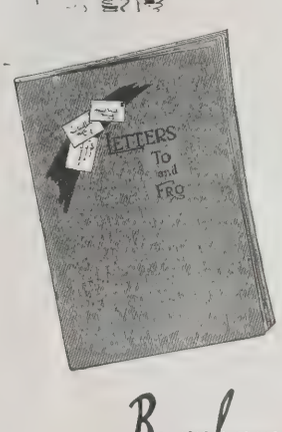

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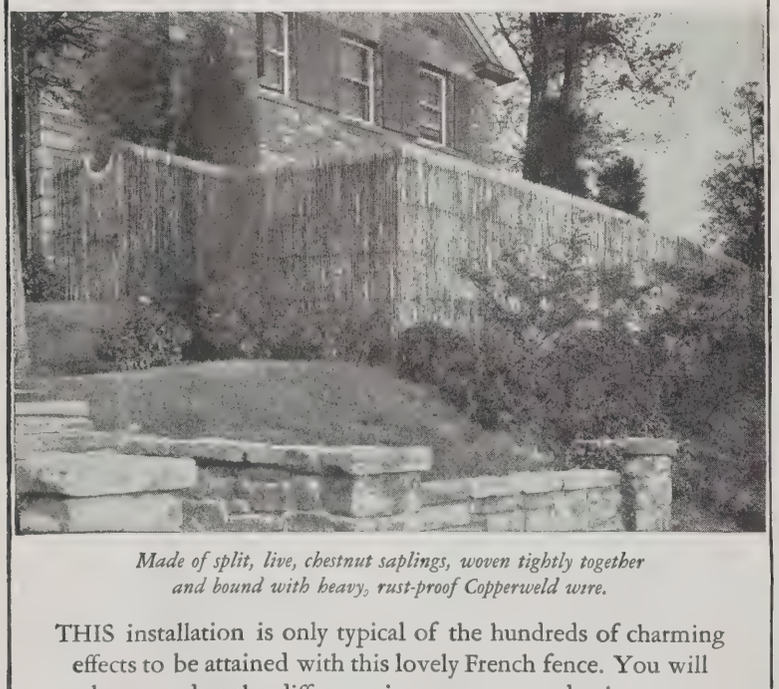

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Phlox, Flower of Flame

Continued from page 531

Garden Phlox (P. paniculata) needs no present comment. It is the tallest species with the widest leaves. The original magenta color has been extended from pure red to nearly pure blue, and in pale tints to white. It has the greatest color range of any American plant. No one can say how many named forms there may be, for new seedlings appear every year, but at least 200 names are in the trade lists as distinct, but no attempt has been made to straighten them out. The trade name P. decussata should be dropped. P. amplifolia of botanists, with wider leaves, is not in cultivation anywhere.

Phlox maculata (Sweet William Phlox), has shiny fleshy narrow leaves and red spotted stem. One dealer offers it. The flowers are purple in June, in panicles after the manner of its more common relative.

Hybrid forms are listed—Alpha, Rosalind and Schneelawine. Some of the Garden Phlox types are supposed to be hybrids with this, but the peculiar stem and foliage of this species do not show in our common garden sorts.

It is not as important a plant as the related Smooth Phlox (P. glaberrima) which has similar narrow fleshy leaves, but the flowers are in a more loose spire-like cluster, not a broad panicle. The root system is tremendous of this plant, of tiny vermicelli roots. It is apparently the variety suffruticosa which is planted mostly as Miss Lingard (white with rose eye), but 10 other forms are listed—try to get them.

Blue Phlox (P. divaricata or canadensis) is one of the most common wild flowers of the Middle States and westward. In nature the color ranges from deep blue to lavender, purple, rose, and white. For May-June it is one of the best hardy border plants. Named forms are listed, as Laphami, Perry's Variety, Violet Queen. As these are mostly in English catalogues we must search for similar select forms in our woods. It is rather large for the rock garden, better as a spring border plant. It is easily distinguished from the other border sorts by the large flowers in flattened clusters, the colors running in shades of blue. It sends out runners in summer and increases rapidly.

Arends Phlox (P. arendsi) is a series of German hybrids between this and the tall Garden Phlox. At least 5 forms have been listed in this country. The season is June, the height about two feet; but the colors of some are pale or muddy. This group should be further developed.

Very similar is Downy Phlox (P. pilosa), but the stems and leaves are hairy, and no runners are made. The color varies from purples to reds, the flower cluster smaller and more compact. May-June, one-two feet. It sets seed freely and color forms may easily be raised. Botanists will surely chop up this species, for it varies as it comes from dealers of the wild. Sand Phlox (P. argillacea) is a form found in the sands of Indiana, with leaves more narrow, habit more slender. The flowers are in shades of violet rather than red, with two purple dots at the base of each petal. It is more like a small-flowered hairy P. divaricata, later flowered. This is now in cultivation.

The species with evergreen basal foliage and height usually less than a foot are of great interest for rock ga and special situations. Of two s the flowering stems are unbran Neither looks like a Phlox except in bloom.

Mountain Phlox (P. ovata, also P. carolina) makes heavy ro of large thick round leaves on w stems, like a stout Pentstemon. leafage persists all winter, and wi at flowering time, except for smaller foliage on the stem. The clusters of wide round rose fl (May-July) are quite unlike any Phlox. This is the largest ever species, and common in gardens.

Creeping Phlox (P. stolonifera, called P. reptans) is equally un Most of the year it sends out leafy ners after the manner of a Strawb with round leaves unlike any plant. In May-June it sends up sl flower stems with small cluste large pink-purple or magenta flo Though the color is at war with species in bloom at the same time, forms can be found and clear ro blue should be possible. Its one s character is its habit of wand widely and rapidly.

The next group is the Moss and its relatives. These are low green plants, much branched, the f clusters small but many, formi colored mat over the evergreen fo Moss Phlox itself (P. subulata) n no remarks, for every rock garden dry bank has the common purp white forms. Some 20 varieties named, and more can be picked o will. The special forms are much b than the wild sort, from deep ros to lavender and white, the newer with larger rounder petals. Sens and Vivid are very glaring shad rose, and can be seen from afar. plant can easily be distinguishe touch, for the foliage is needle and pricks the hand like juniper nee

Amoena Phlox (P. amoena) is like the large-flowered forms of Phlox in mass effect of large flowers, but it has tiny oblong le not at all prickly. Its shade of ros bit glaring, but it smothers other p much less than does Moss Phlox, is more easily kept in its place. Br Phlox (P. brittoni) is much as Phlox, and is of the same easy cul The foliage is less prickly and green, but the stems and undersi the leaves are white hairy. The fl are nearly white, with faint eye o blue dots, each petal deeply cleft, g a ten-pointed star. It is decidedly able for the rock garden, from May to the end of the month. It i yet in the trade.

Mauve Phlox (P. stellaria) is a robust sort of this type, from a stout woody base. It covers more garden in less time than any species, and looks like a long-h dog most of the year. The narrow l are stiff, but not sharp, while flowers are pale blue or milk white, petal deeply cleft. The form lilaci P. subulata is a sort of interme form and may rather belong to species. P. bifida (Cleft Phlox) a kelseyi (Kelsey Phlox) are give botanies as similar species, but are not cultivated nor obtainable.

Phlox multiflora, from the Ro is of the Moss (*continued on page*

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STEELTEX

THREE TYPES—SAME PRINCIPLE—SAME PROTECTION

for plaster . . . for stucco . . . for floors and roofs (concrete and gypsum)

NOW PLASTER IS REINFORCED WITH STEEL—EXACTLY LIKE CONCRETE

FLOORS THAT LAUGH AT SPILLED THINGS . . .

This is pattern No. 1173/2 in Sealex Linoleum.

ACCIDENTS are bound to happen "even in the best regulated families." There's no way to avoid them. But there *is* a way to avoid the aftermath—those unsightly stains on your linoleum floor. That is to remember the name "Sealex" when next you buy linoleum for any room.

Sealex Linoleums are proof against all ordinary household accidents. The *Sealex Process,* an exclusive new manufacturing development, penetrates and seals the tiny dirt-absorbing pores of the linoleum. The most acidy fruit juices, the hottest sizzling fats, the smeariest greases—all wipe right off without leaving a trace.

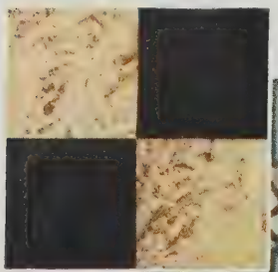
Dirt cannot be ground in. Liquids—even the blackest ink—cannot penetrate. A damp cloth takes all of them off without leaving a sign of a stain. Think of the work-saving virtue of such a floor!

More than that, you want year-in and year-out beauty in your floors. It is yours in Sealex Linoleums. Durability extends clear through the smart inlaid colors and patterns.

Sealex Linoleums are made by the largest manufacturers of smooth-surface floor-coverings in the world. There are Inlaids (like those shown) two-tone Jaspé, Romanesq, Plain, and Battleship . . . for every type of room and every purpose . . . and each carries the manufacturer's guarantee of satisfaction or your money back.

CONGOLEUM-NAIRN INC., *General Office:* KEARNY, N. J.
New York Philadelphia Chicago San Francisco Pittsburgh
Boston Minneapolis Kansas City Dallas New Orleans Atlanta

Sealex Linoleum No. 3042
Karnean Marbled design.

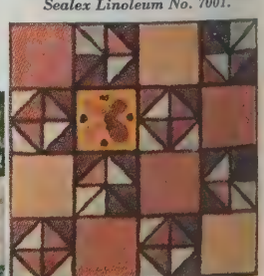


Sealex Linoleum No. 2/4210.

SEALEX LINOLEUMS

Sealex Linoleum No. 6141
Karnean Marbled design.

Sealex Linoleum No. 7001.



FREE—*"Your Floors as a Decorator Views Them"*—a new book on home decoration by the well-known authority, Winnifred Fales. A practical Color Scheme Selector comes with the book. Address Congoleum-Nairn Inc., Kearny, N. J., today, for your free copy.

Add to the beauty of your roses

Every amateur can have professional blooms by using Fungtrogen spray. Acts like magic on roses or other plants afflicted with Mildew and Black Spot. Bigger flowers and more them when plants are sprayed Fungtrogen. Easy to apply. sible. No discoloration of leaves. need to add soap. Endorsed by ing horticulturists. ½ pint makes quarts of spray.

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Fant Iris in Mass

alifornia wild flowers, blooming for nis along roadways and across vast tches of meadow and desert, have aght a great lesson in the colorful rement of gardens, grounds and stes. Here in Southern California hinass planting of Iris has reached a lection that sets a model for all oth parts of the country.

is is ideal for mass planting. For iness of coloring, variety and ease of owing, this outdoor orchid is un-assed.

rite us about your mass planting problems, ding a rough sketch if possible, and we will ve free advice on treatment. Our fine new atalogue describes and illustrates more than 250 exquisite varieties and gives complete cultural directions for both large and small areas. Ideally, it offers all the best varieties in the various classes to which reference was made in the Iris Article pp. 470-71, July Garden & Home Builder.

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The rugged texture and infinite variety of soft colorings, characteristic of Tudor Stone make this the ideal slate for flagging and flooring—both indoors and out. We are prepared to furnish this flagging slate in any shapes and sizes—and in any quantity.

We shall be pleased to mail you, upon request a copy of our illustrated booklet "Tudor Stone Flagging"

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Made in No. 12 (small) and No. 16 (large) residence sizes

YOU too can save a heavy fuel bill every month by using a National Multi-Flow Tank Heater. With little attention the Multi-Flow gives you 24 hour a day hot water service, burning the cheaper grades of coal. Abundant clean hot water through copper coil and connections of bronze. Join the growing list of satisfied users.

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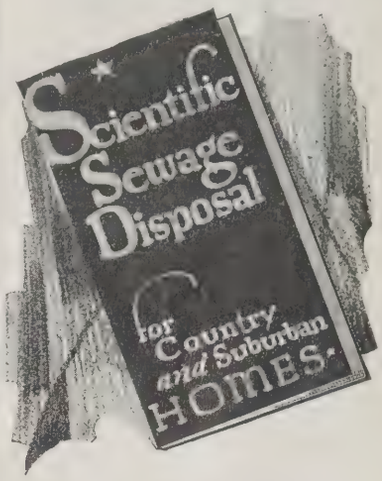
May We Send You This Authoritative Treatise?

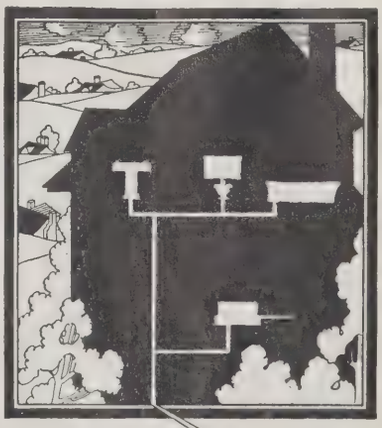


AN important booklet that will tell you what, why, and how you can make your unsewered suburban or country home as sanitary and convenient as a modern city apartment. There is a Kaustine system to take care of the sewage disposal of your entire home—the bathroom, lavatory, toilet, sink, and laundry; and the cost is surprisingly low. Underground, out of sight, these septic tanks have proved to be a sound investment not only in comfort, convenience and health in thousands of homes, but also in the resale value of the property.

Use the Coupon. Get the facts

Be sure your Septic Tank bears the Kaustine trade mark. Inexpensive to buy, easy to install, broadly guaranteed. Widely endorsed by health authorities, architects, and plumbers everywhere.

Kaustine
SYSTEMS for SEWAGE DISPOSAL



Kaustine quality is the recognized standard of comparison. Yet it costs no more than many cheap steel tanks. Insist on genuine Kaustine Armco Ingot Iron Tanks.

KAUSTINE CO. Inc., 28 Main St., Perry, N.Y.
Send me a copy of the free book "Scientific Sewage Disposal for Country and Suburban Homes"

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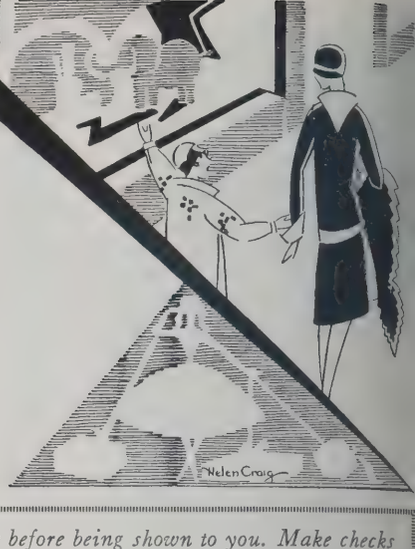
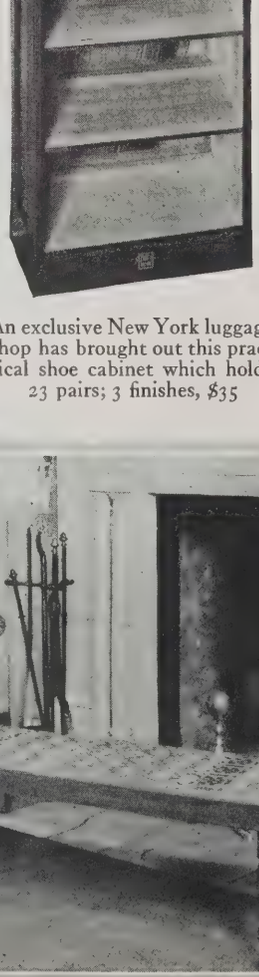
SHOP WINDOWS OF MAYFAIR

By Shirley Paine



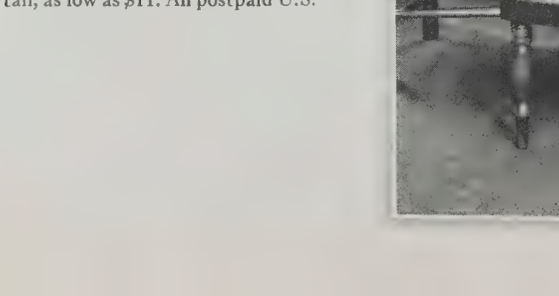
This is your department, please feel free to use it early and often. The more things you buy through Shop Windows of Mayfair, the more things we can show here. Each article has been chosen because of value, smartness, or usefulness. Our Board of Censors is active, and everything on these pages had to receive a unanimous vote before being shown to you. Make checks payable to Shirley Paine, care Doubleday, Doran & Company, Inc., 244 Madison Avenue, New York. Write her, enclosing check for the article you wish, and she does the rest. This service is entirely without charge.

A lamp of the new age is the *Lightning*, which is suggested by a brightly polished hand-forged iron streak, connecting with a cloud-effect base of black iron. The 12″ parchment shade is decorated with blue sky, gray, silver, and black clouds, and yellow lightning flash. Silver leatherette binding; total height 20 in.; price complete $18, express collect

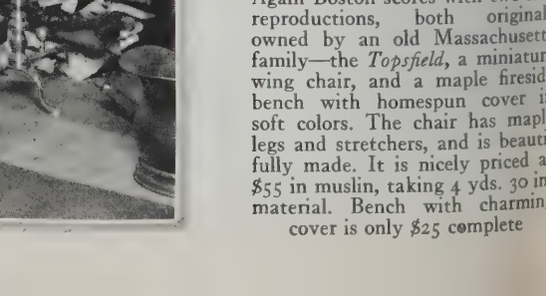


An exclusive New York luggage shop has brought out this practical shoe cabinet which holds 23 pairs; 3 finishes, $35

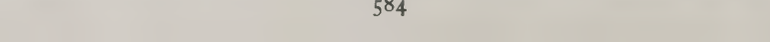
In many types of room wrought-iron sconces lend a finishing touch not possible with any other style. One of the best forges in Boston has selected this sconce as among the best; hand-wrought throughout in a graceful leaf design, and hangs on the wall. It is authentic for candles, but could be wired by your local electrician. Considering the skilled workmanship, it is a most acceptable buy at $6, especially since it is postpaid anywhere in America. Checks to Shirley Paine as usual. A fine catalogue, too



When golf champions adopt a thing there must be a very good reason for it. The *Sportocasin* is for those who take their golf seriously, since the game puts special strains on the foot, and one must support it in every playing position in order to avoid end-of-the-round fatigue. Four widths, A, B, C, D. *De luxe* moccasin in brown zug designed especially for the Walker Cup team, $15.50 in spikes. Fine tan calf with spikes, $14; without spikes, $12. Other models in black and white, tan and white, and all tan, as low as $11. All postpaid U.S.



Something new, different, useful. A special traveling set of Celanese silk by *Kleinert*, in orchid, rose, and green; linings pure rubber in harmonizing colors. Three pieces: pack for washcloths, soap, etc.; an ample flat roll-up for several larger articles; a big melon-shaped bag with easy sliding draw cord and pockets for brushes, bottles, jars, etc. Especially priced at $10, postpaid anywhere in U. S.



Again Boston scores with two fine reproductions, both originals owned by an old Massachusetts family—the *Topsfield*, a miniature wing chair, and a maple fireside bench with homespun cover in soft colors. The chair has maple legs and stretchers, and is beautifully made. It is nicely priced at $55 in muslin, taking 4 yds. 30 in. material. Bench with charming cover is only $25 complete

TO bring new interest to your garden with a Bird Bath of sparkling water inviting the birds with their merry notes to linger with you—or create delightful spots of color with graceful jars—

Use

GALLOWAY POTTERY

Illustrated in a comprehensive catalog of over 300 numbers including sun dials, vases, gazing globes, benches and other useful pieces, which will be sent upon receipt of 10 cents in stamps.

GALLOWAY TERRA COTTA CO.
4 WALNUT ST. PHILADELPHIA.
Established 1810

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To have served since 1798 the nation's most distinguished clientele is proof enough of Briggs' good taste and exclusive wares.

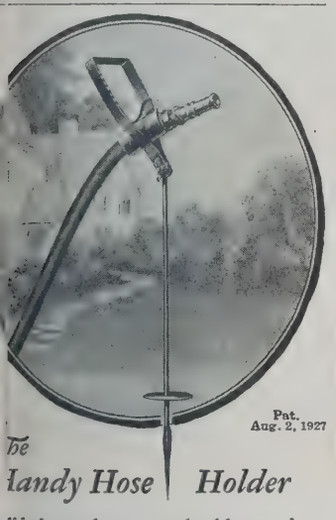
Visit our shops this summer

RICHARD Briggs INC.

32 NEWBERRY STREET

68 SCHOOL STREET

BOSTON



Pat. Aug. 2, 1927

The
Handy Hose Holder

ll help you keep your shrubbery and lvn a Paradise of Green with the least ssible effort. Will save you much ne and many steps.

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HANDY HOSE HOLDER
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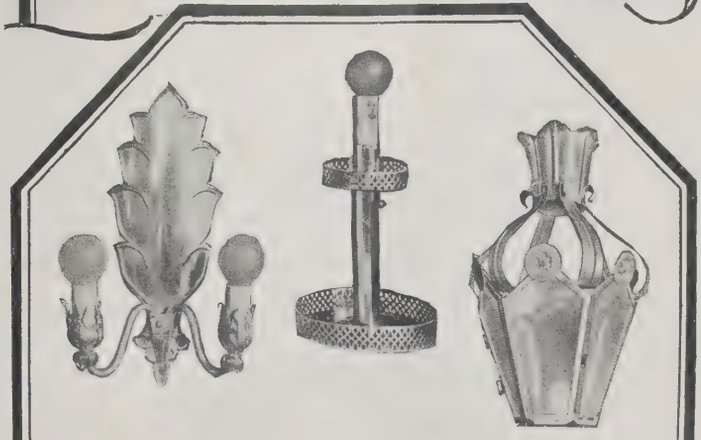
Out · of · the · Ordinary
Beautiful — Inexpensive
LIGHTING FIXTURES



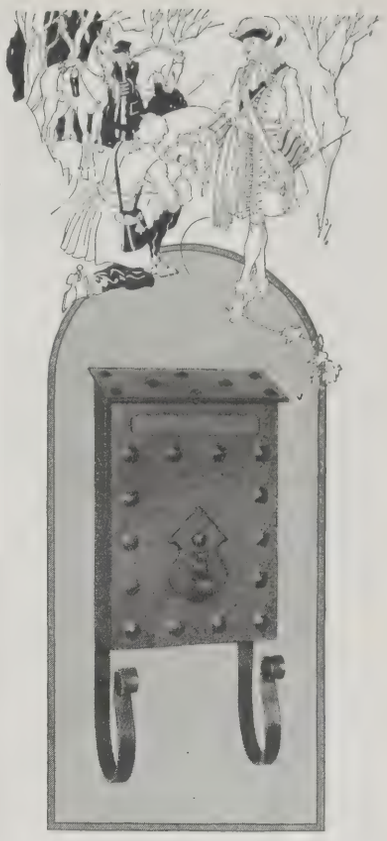
FOR those who love the charm, distinctiveness and beauty to be found in the finest specimens of early American lamps, lanterns and sconces, the Industrial Arts offer an extensive line of hand-made faithful reproductions at moderate prices.

The illustration shows three charming examples which are available in copper, brass, pewter or tin and with electric attachments.

Hand wrought of Copper · · Brass and · · Pewter · ·

Write for illustrated catalog mailed on request showing these and many other delightful hand-made reproductions

INDUSTRIAL ARTS INC.
35-A NORTH BENNET ST., BOSTON, MASS.
DISPLAY ROOMS at 64 Charles St.



Courier's End

LESS romantic—but swifter than the service of the plumed messengers in days of old, the modern courier with his trim blue uniform still finds the Spirit of Service and old-fashioned romance in this mail box of genuine forged iron made by McKinney. Here is room for fine fat letters from distant friends; space for long envelopes, holders for favorite magazines; and withal, it has a sturdy, well-proportioned shape and rugged rust-proofed finish of which you will never tire.

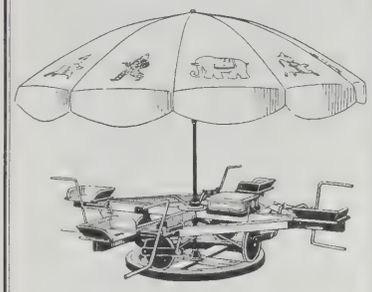
Forged Iron Hardware by McKinney embraces all pieces necessary for trimming a house complete: marvelous hinge straps and handle sets, graceful knockers, finely proportioned H & L hinges, chimney irons, shutter dogs, fireplace equipment—and forged iron lanterns just waiting for the Town Crier to light and carry them once more. Department, Electrical Stores and Builders' Hardware Merchants carry McKinney Forged Iron. Be sure to see it. For an illustrated Brochure, write McKinney Mfg. Co., Pittsburgh, Pa.

McKINNEY FORGED IRON HARDWARE

Forge Division, McKinney Mfg. Co., Pittsburgh, Pa.
Please send me, without obligation, the items I have checked:—
☐ Folio on Lanterns
☐ Brochure on Forged Iron Hardware

Name _____
Address _____ G&HB 5-28

PLAYTHINGS
from MAYFAIR



Merry-go Round

Four seated carrousel that supplies fun for the children all the year.

Carrousel, without umbrella,	$100
Umbrella, extra.	70
Organ, extra.	50

We have Playthings for the big and little folks for all ages; for the Beach, the Lawn and for Home Entertainment.

Mail Orders Filled Promptly

Mayfair
Playthings Store
741 Fifth Ave., (at 57th St.,) N. Y.

ANDORRA

High Grade Stock of Ornamental Trees and Shrubs

Catalogue on Request

ANDORRA NURSERIES, Inc.
CHESTNUT HILL PHILADELPHIA

High Quality
BULBS
For Autumn Planting

Our Fall Bulb Catalogue sent on request.

Stumpp & Walter Co
30-32 Barclay Street
NEW YORK

SHOP WINDOWS OF MAYFAIR

Shopping Service

Now you can choose your favorite among these new door-stops with Wire-hair, Sealyham, Airedale, Scottie, and Setter designs. Modeled from famous champions that we have shown from time to time as book-ends, only a strong tempered steel spring has been added at back to fit under lower edge of door to hold it fast. Will stop the heaviest door. Dogs in natural colors on green grass base, except Scottie, which is black on black. Price $3.75 each

For touring, camping, and picnics, this stout knife-fork-spoon set is efficient and long-lasting. So much flimsy camping equipment is sold these days that old-timers must be careful in what they choose. Five tools all lock together in a single unit for carrying in the leather case. Tempered polished steel knife, fork, spoon, de-capper, and can opener. Complete $3; postpaid 100 miles N. Y.

The modern golfer ash tray is of dull triple silver plate. He stands on a tee of green enameled grass, while the three trays and flag are of brass. . . . The caddy bag and flag cigarette holder is also of dull silver plate inside and out, with green top. It holds a liberal supply and makes a nice running mate for the tray. Each item $8; postpaid 100 miles N. Y.

A *Bird-founte*, combining bird bath and fountain when connected with a garden hose. Pointed lower end may be placed in ground anywhere, is 40 in. high, with a 16 in. basin. In wrought iron finished green and yellow, $5; copper bowl, $6.50. Prices postpaid east of Rockies; slightly higher west

Boston is charming, its shops more so. In one of these we found this most satisfying pattern of English porcelain, called most appropriately 'Pagoda Mayfair.' The colors are wholly delightful, the shapes of the various items are both unusual and graceful. This pattern may be bought in two ways—dinner plates at $13.50 the dozen; teas and saucers, $13.50 the dozen; or a complete service for eight, $75. This pattern combines beauty, quality, and definite price value. Checks to Shirley Paine.

#1260

This Mahogany and gold mirro is a very convenient size for us in the modern home. Outside measure 35¼ x 18½", mirror plat 14 x 22", price $25.00.

Silhouettes are attractively used with mirrors. Those shown are—

Ovals #5464 "George and Martha Washington" 4 x 4½" outside measure, price $3.75 each.

Others, #5359, "Continental Soldier and Colonial Dame" 5 x 6½" outside measure, price $6.75 each.

Send for S-3 Circular

FOSTER BROTHERS
Arlington, Mass. and
4 Park Square, Boston, Mass

GARDEN FURNITURE
of the better sort. Pompeian Stone, Lead, Terra Co Marble. *An illustrated catalogue sent for 10 cts.*
THE ERKINS STUDIOS, 250 Lexington Ave., at 35th St., New

ROBRAS 20-2
RADIATORS
In-the-Walls
Out-of-the-Way
Out-of-Sight

ROME BRASS RADIATO
CORPORATION
1 East 42nd Street, New York

COTTY DOORSTOP

PRICE $10.00

ecialists in the Design and nufacture of Hand Wrought nwork of all descriptions.

Catalogue Mailed on request

ye IRON Shoppe

472 Boylston Street
Boston, Mass.

IRISES *and* IARDY PLANTS

Special Iris Offer

arius, S. yellow, F. blue white border
lbert Victor, true blue
Avenire, delicate light blue
alvina, S. deep yellow, F. Maroon
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rea, bright yellow

l six iris for $1.00, postpaid in New ngland, New York and New Jersey, d 10% for postage to further points.

e grow all kinds of iris and hardy nts, gladiolus bulbs and some peonies. ATALOGUE on request.

VEST END GARDENS
JOSEPH R. DEMERS
arlboro Mass.

Iris · Perennials Rock Plants Peonies

150 Varieties Bearded Iris
180 Varieties Perennials
50 Varieties Peonies
75 Rock Plants
16 Sedums 33 Phlox
warf, Japanese Siberian Iris

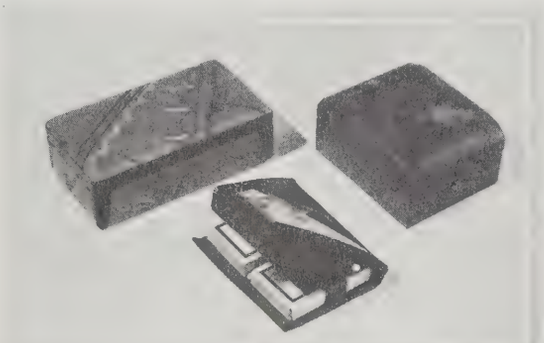
e ship only such plants as re would expect to receive.

Hillside Gardens
Estes Street
Amesbury, Mass.

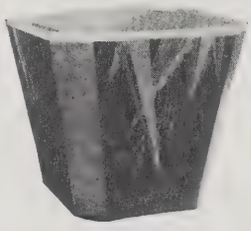
SHOP WINDOWS OF MAYFAIR

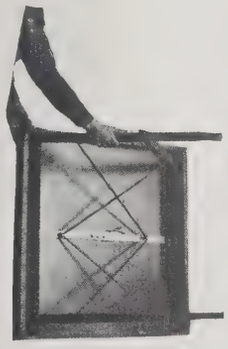
Shopping Service

For many months we have searched collections for the perfect Early American teapot. We now present this exquisite little model as one of the loveliest examples of pewter that we have seen, and one of the earliest extant. Teapot holds 1¼ pints. The handle is natural finished maple. Included in the set is an 11 x 14 in. tray, with sugar and creamer. Tray especially fine, with simple lines and unusually nice proportions. Complete, $42. Teapot, sugar, and creamer, $32; pot alone, $21; sugar, $6.30; creamer, $6.30; tray, $12.60. Prepaid anywhere in U. S. Send for catalogue of other items

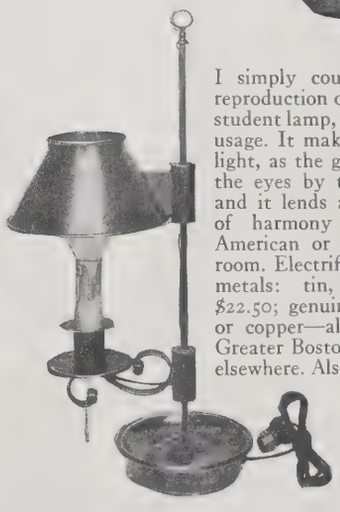


From the studios of Cordova Shops; hand-laced, hand-tooled, and hand-colored of the finest leather. The jewel case is nicely lined, $25; the bridge set with two packs cards, $12; the cigarette box, $18; scrap basket, $30. Postpaid east of the Mississippi





Lift one leg with a touch of a finger and the other three move into place and lock rigidly. To fold up, just press a catch releasing the lock. Black moiré top; $12.50 in mahogany legs and trim; $16 in green or red lacquer. Prepaid 100 miles N. Y.



I simply couldn't resist this reproduction of an old Colonial student lamp, wired for modern usage. It makes a fine reading light, as the glare is kept from the eyes by the metal shade, and it lends a welcome touch of harmony in any Early American or peasant type of room. Electrified prices in four metals: tin, pewter finish, $22.50; genuine pewter, brass, or copper—all $35. Delivered Greater Boston; express collect elsewhere. Also a fine catalogue

This 60 in. chaise-longue special is one of America's outstanding furniture buys. $47.50, including ruffle; no crating charge; and covered in your own choice of glazed chintz, cretonne, or sateen. Legs mahogany, walnut, or maple. For convenience of nearby shoppers, price $42.50, when not crated

bring birds to your garden
HERE is a beautiful Bird Bath that is also a fountain when connected to your garden hose.
Constructed of wrought iron and attractively finished in green and yellow enamel. Stands 40 inches high. Secure from cats. Basin (16 inches in diameter) may be had in either enameled steel at $5.00 or solid copper at $6.50. Lower section is pointed and may be placed anywhere in even or uneven ground. Assembled in two minutes without tools.
Ask your dealer, or sent postpaid in compact carton on receipt of price on money back guarantee. Order yours to-day.
The Bird-Founte Company
139 Franklin Street, New York
$5, $6.50 with Solid Copper Bowl. $1.00 higher west of the Rockies
Connect Garden Hose Here for Fountain
Bird-founte
TRADE MARK REG'D. PATENTS PENDING
A BATHING FOUNTAIN FOR FEATHERED FRIENDS

How to Build a Perfect FIREPLACE

—without increasing cost!

WE *guarantee* no smoke, improved ventilation, and *double heat from same fuel.* The Heatilator is a double-wall form around which the masonry is built. Positively assures proper construction. It sends into the room heat which in ordinary fireplaces goes to waste. Saves enough in actual labor and material to cover cost. Fits any type of design.

FREE If you are going to built or remodel your fireplace, write for our free Planbook of modern fireplaces. Address Heatilator Company, 713 Glen Avenue, Syracuse, N. Y.

Heatilator Fireplace Unit

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Please send free copy, "Planbook of Modern Fireplaces."

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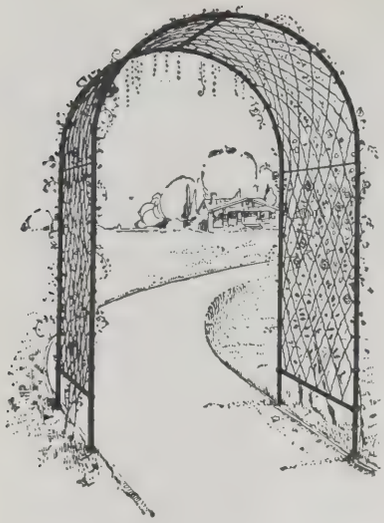

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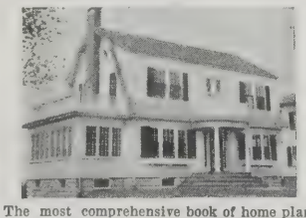

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FREDERICK H. GOWING, Architect
110 Tremont Street Boston, Mass.

Your Garden in August

Continued from page 566

early variety of Corn. Keep an eye on the Asparagus; the beetle is sure to be abroad and it and its larvæ can easily be kept down by spraying with arsenate of lead or Pyrox.

Make a new Strawberry bed! Whether one plants one's own layers or buys young stock in pots, the sooner they are in, the more certain is the crop next season. By the way, one can get a bit of fun by raising Strawberries from seed. I raised a batch of about a dozen in 1926 and they fruited this season.

All the Peas will probably be out of the way by this time so one can plant out the greens and the Celery which have been carried along in beds in readiness.

Your Garden on the Pacific

ELIZABETH URQUHART

TIME now to be thinking of next winter, and of starting plants which will bloom then and in early spring. Seeds may be sown now of Cineraria, Primula, Butterfly-flower, Forget-me-not, Anchusa, Delphinium, Coreopsis, etc. The Cineraria seeds are very fine and should be mixed with dry sand before planting. Press into the soil of the seed box and cover lightly with sandy loam. It is best also to cover the box with cotton cloth and to water through the cloth until the seeds germinate.

The Schizanthus, Primula malacoides, and the Chinese obconica, make satisfactory winter-blooming plants, both for bedding and for house plants as well. The Primulas thrive best in a shady damp location in a light soil, well fertilized, while the Schizanthus, being joyous sort of bloomers, like plenty of sun.

Anchusas are generally propagated by division of the roots or by cuttings, but may also be raised from seed now.

If the Roses have been given a midsummer rest, they may be roused to activity by irrigating them the latter part of the month. The trenches along the rose beds may be opened up, the ground thoroughly soaked, afterwards covered up with dry earth. They may also be lightly pruned now, cutting out all dead wood, particularly in the case of climbers, and all shoots which have grown too long. From these prunings cuttings may be made, although it is better in most locations to wait until cooler weather.

The late-blooming Asters will need plenty of water and liquid manure, taking care to water only the roots and not the foliage. Then the Chrysanthemums must be well staked up and kept well watered and fertilized, and, if the leaves are infested with aphis, use tobacco.

If some of the Dahlias have bloomed early, they may be cut back to start new growth and they will bloom again. The Violets should also be well watered, and all side shoots and runners removed.

The Amaryllis will be in full bloom this month and may be transplanted immediately after blooming. Do not delay too long, as they will not bloom the following year if moved too long after the blooming season.

Continue planting Freesias and begin planting Lilies, starting with the Madonna Lily. Plant in light but rich soil and in partial shade in a sheltered situation with the top of the bulb two inches below the surface of the soil, and with all Lilies, plant in a sand cushion to insure good drainage.

Your Garden in the South

ETHEL HUTSON

HERE in the semi-tropical region along the coast of Florida, Louisiana, and Texas, August is hot and often rather dry, compared with the two months just past, so one is inclined to take the advice of the old florist who said: 'August is the time to take a vacation and to give your garden a vacation, too'; but there may be a poor showing in the garden for the fall.

Instead, cut back all the overgrown vines and jungle-like growth among the Dahlias, Chrysanthemums, etc., pull up the seedling Euphorbias, Balsams, and other volunteer annuals, unless they happen to be where you want them; spade deep and turn well all beds that are to hold spring-flowering plants. If the Roses and evergreen shrubs were not worked and fertilized in the latter part of July, do it now, using bonemeal, commercial fertilizer or stable manure.

In preparing the beds for September planting, it is well to make a definite plan as to what plants will occupy each bed, in order to make the soil suitable for them. Roses, Sweet-peas, Lupines, Poppies, and a number of other annuals and perennials do best in full sun and seem to prefer a slightly alkaline or neutral soil.

On the other hand, Azaleas, Hydrangeas, the native wild or swamp Iris, most of the Lilies, Ferns, Oxalis, along with many plants from the woods, cannot stand lime, and need a soil composed of leafmold and sand. Most of these do well in shade, but many of them can also be grown in full sun. Manure and commercial fertilizer should not be used in these beds, as the former tends to rot the bulbs of Lilies and often brings root borers to Iris, and the latter seems to be too stimulating. Well-rotted leaves, especially those from Oak trees, are the best food for these acid-loving plants, and when the plants are well established the only care they need is a new supply of leaves sifted down around the roots twice a year, and plenty of water at all times—except in the case of Azaleas, which should have very little water this month to force bud growth instead of leaf growth.

Re-make the cutting-bed or boxes this month with clean sharp sand, six inches or more deep. Cutting-beds, which have to be kept very moist at all times, are apt to get fungus growths or other disease germs in them if used too long. Starting with a fresh bed, it is now time to put in cuttings of Camellia japonica, as this winter-blooming shrub roots easily in August, while at all other seasons it is hard. Roses are often more dormant, if it has been dry in August, than during the winter months, so cuttings may be made from them, too, if care is used to get good wood, not too soft, and not too old.

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Adventuring in Contentment

Continued from page 533

consider rare. The woman who gave them to me said the plants were over one hundred years old.

The place is so small we are always finding something delightful to do which involves neither mental nor financial strain. For instance, this year we have added a small rose garden, a few garden chairs, a pottery vase at the base of a few old stone steps which have been here as long as the house itself, and are to be the basis of a small rock garden which we may do next season.

Twelve years have flown by. I do not know when our greatest dividend is received, whether in April when the borders are a golden glory with Daffodils and Forsythia, or in May with stately Tulips, Pansies and Forget-me-nots amongst them in the garden; pink and white Dogwood against the dark green of the Pines, the Red-bud, Lilacs, and Apple trees in bloom. Or in June when come over half a hundred varieties of Iris (German, Oriental, Siberian and Spanish), Columbine, pink and white Oriental Poppies with their wonderful mahogany splotches, Foxglove, Sweet William, yellow Day-lilies, and Canterbury-bells, old-fashioned yellow Roses, June Pinks and the sweetness of Syringa. Or in July when Larkspur rise six feet high, lifting great stalks of mauves, deepest blues and heavenly blues; accompanied by Madonna and Regal Lilies, the marvelous Japanese Iris (twenty-three varieties), and Heliotrope and Nicotiana add their perfume to the air.

In August perhaps the dividends begin to dwindle, but still we can count Phlox in all colors, late yellow Day-lilies, the speciosum Lilies, and Plantain-lilies. In September Zinnias, Cosmos, and the misty loveliness of perennial blue Salvia add further joy.

Among most delightful dividends must be reckoned the birds. Catbirds in the Lilacs, purple grackles in a hole in an old Apple tree. Tree swallows in an octagon house at the end of the garden especially for their use, kingbirds, goldfinches in the Larch and swaying on the Batchelor-buttons. Orioles bathing each day in the bird bath. The bluebirds in their own houses. The scarlet tanager in the Oaks; the chewink in the underbrush. The gorgeous blue-jay teasing for his daily ration of bread with occasionally a bit of cheese as a special treat. The humming-bird at the crimson Weigela, the redwing blackbird in the meadows and the beautiful note of the wood thrush at twilight.

Phlox, Flower of Flame

Continued from page 578

type, and a very good companion plant. The leaves are narrow, smooth, but not rigid. The flowers are large for the size of plant, solitary, with entire round petals of pale purple (Argyle purple) with a white central halo, but no eye, like a blossom from the tall lavender forms of Garden Phlox in August. It is of easy culture and obtainable. By all means try it as a change from Sensation.

Phlox douglasi is a tiny Moss type from the West. It is not over three inches tall, with narrow green soft foliage. The flowers are solitary, of palest lilac (pale lilac) with a rose eye. It looks like an Aubrietia of five petals. Apparently it is hardy and sturdy, and in the trade.

Phlox adsurgens has rounded leaves and large rose flowers. It is more like P. amoena in habit. Though from Oregon in the mountains, it will not live through New England winters. At least ten more species of this general habit are known from the far West, but no one is cultivating them. Who can report on garden value of P. austromontana, P. alyssifolia, P. gladiformis, P. grayi, P. goddingi, P. longifolia, P. nana, P. mesoleuca, P. stansburyi, P. tenuis or P. triovulata? Some of these have been tried, but they ship poorly from the far Western states, and rot off before fairly started.

Lastly comes the peculiar group of low mat-like tiny shrubs native wholly to the peaks of the far West. They are moss-like, in depressed rosettes, with large woody roots and short, much branched stem. The height is but a few inches. They are true alpines, of slow growth and long life, but not of easy culture. P. hoodi and P. condensata have been tried, and die in a few months, even under loving care. Not yet available are P. caespitosa, P. bryoides, P. canescens, P. dejecta, P. covillei, P. rigida and P. sibirica. All are in the Rockies between Washington and Mexico, but dealers rarely have them. Even if established, the plants will not survive our hot dry summers or wet open winters. They are as capricious as any rare treasures of the Alps, and are particularly desirable for the garden of difficult alpines. Still, if P. multiflora and P. douglasi of the same mountains are hardy, some of this group would withstand the cold of our winters, and the rock garden can be built to suit them. The farther west the species, the smaller the stature, and more difficult the culture in gardens of the Eastern states.

Order of bloom (average dates at Boston, Mass.) of common species of Phlox:

P. subulata—May 1–30; P. brittoni—May 5–30; P. amoena—May 5–30; P. canadensis—May 10–June 15; P. stellaria—May 10–30; P. stolonifera—May 10-June 30; P. multiflora—May 10-June 10; P. douglasi—May 10-June 10; P. pilosa—May 15-June 15; P. argillacea—May 20-June 20; P. ovata—May 20-July 10; P. arendsi—May 30–June 30; P. maculata—June 10–30; P. glaberrima—June-July; P. paniculata—July-September.

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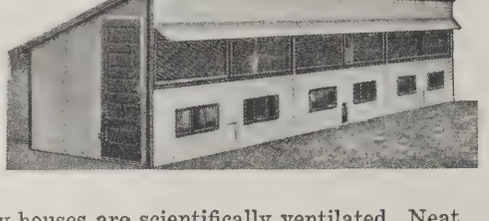

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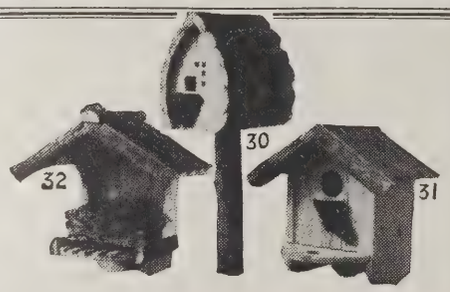

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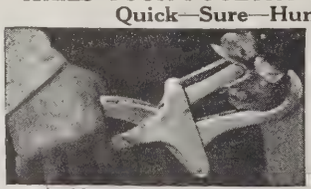

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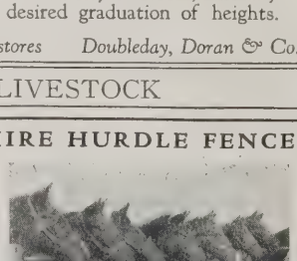

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The brilliant blooms of Evergreen Azaleas make dull places in the garden glow with color. The plants may be used in groups with other evergreens, in rock-gardens, or in borders. Used as single specimens they soon become large plants, increasing in value yearly.

Evergreen Azaleas are entirely hardy even in severe northern winters. Some varieties may require slight protection when small, but when established are not affected by low temperatures.

Many varieties of Evergreen Azaleas have been tested in our Nurseries; inferior sorts have been discarded, until now we have more than a score of varieties that can be recommended to American gardeners. In this great collection are included the following—

Azalea amoena—Bright rosy purple blooms in May. 12 to 15 inches diam., $2.50 each.
Amoena superba—Dark purple; hose-in-hose. 12 to 15 ins. diam., $2.50 each
Benigiri—Brilliant red. 10 to 12 in. $2 each.
Hinodegiri—Brilliant scarlet; profuse bloomer. 12 to 15 in. diam., $3.75 each.
Kaempferi—Pure red. Tall, bushy, absolutely hardy, and one of the best varieties for cold climates, 18 to 24 ins. high. $3.50 each

Many other varieties of Hardy Evergreens and Deciduous Azaleas are described and priced in our catalogue "Evergreens, Azaleas, Rhododendrons." A copy of this catalogue will be mailed on request to those who intend to plant Azaleas.

Azalea Kæmpferi

Novelty Climbing Roses

Bobbink & Atkins Introductions

Ben Stad—Creamy white, flushed with flesh pink.
Freedom—Pure white tinged with lemon at center.
Gen. John Pershing—Dark pink buds opening to brilliant pink blooms; double.
Victory—Salmon-pink, borne in sprays.

Potted plants at $2.50 each

Climbing Roses in Pots

Aviateur Bleriot—Saffron-yellow, streaked with crimson.
Coronation—Bright crimson, shading to scarlet.
Climbing American Beauty—Brilliant carmine; richly perfumed.
Excelsa—Scarlet-crimson, shaded.
Gardenia—Yellow and cream.
Paul's Scarlet—Intense scarlet flowers in small trusses.
Silver Moon—Creamy white.
Star of Persia—Bright yellow; semi-double.
Alida Lovett—Shell pink.
Bess Lovett—Light crimson.
Mary Lovett—Pure white.

One each of the above 11 Climbing Roses for $10

Miscellaneous Roses in Pots

Agnes—Coppery yellow. $1 each.
Breeze Hill—White tinted with yellow, rose, and apricot. $2 each.
Hugonis—Light yellow. $1 each.

***Roses* by Bobbink & Atkins** describes and prices several hundred thousand roses in several hundred varieties. A copy will be sent to all who intend to plant roses.

Evergreens for September Planting

Junipers, Spruce, Japanese Yew, Thuja in variety, grafted Blue Spruce (Koster and Moerheimi varieties) in quantity for plantings of any magnitude. Ask for catalogue.

Hardy Herbaceous Perennials

New and Old-fashioned flowers, including Bobbink & Atkins marshmallows, peonies, iris, rock garden plants in large variety, delphiniums. Our catalogue contains complete list, with table indicating flowering period, height and color.

Pot-grown Plants and Vines

Cotoneaster, Euonymus in variety, Honeysuckle, Silver Lace Vine, Ampelopsis, Bignonias, Wisteria. Ask for special list.

Our Specialties

Chinese Magnolias, Lilacs, Japanese Maples, Weeping Flowering Cherries, Red Dogwood, Cotoneasters, and rare flowering shrubs.

In your request for catalogue please state what you intend to plant as we issue several catalogues.

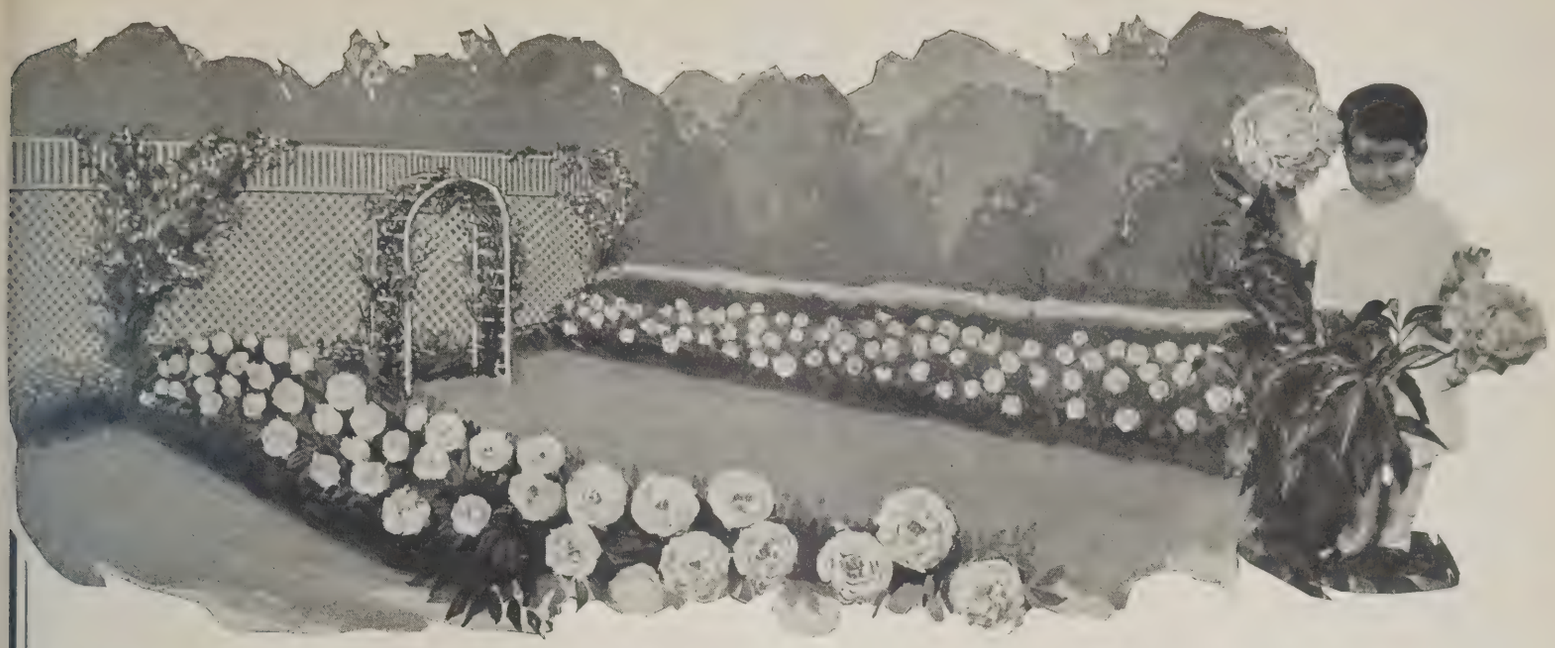
BOBBINK & ATKINS

Ask for Catalogue

World's Choicest Nursery & Greenhouse Products Grown In America

Visit Nursery

Rutherford, New Jersey



BRAND PEONIES

Glorious Creations of Rare Beauty

FOR more than half a century we have been growing the world's most beautiful Peonies. Peony lovers who want new and original creations come to us year after year for their plants. The picture of the little girl above with two wonderful blooms of Martha Bulloch gives an idea of the size and beauty of Brand Peonies. You can well be proud of your Peonies when you grow from original Brand Stock.

Prize Winning Beauties

We have in stock this fall fifty acres including all the glorious creations that have been developed during fifty years of Peony growing. Brand Peonies are almost invariably prize winners wherever exhibited. They are the kind of Peonies you will be proud to grow. Have some in your garden next year.

Brand's Complete Peony Manual

Our new Peony Manual will be ready for delivery about August 15th. It describes not only our own creations, but many other varieties of rare and entrancing beauty. This book covers all one needs to know about the Peony. It treats in full of its history, its varieties, and cultivation. We make a charge of $1.00 for this manual but if you order Peony Roots amounting to $3.00 or more this wonderful book is sent free.

Some Beautiful Varieties

Among the beautiful varieties we have to offer this season are:

LeCygne, Lady Alex Duff, President Wilson, Mme. Jules Dessert, Sarah Bernhardt, Mrs. A. M. Brand, Mrs. Romaine B. Ware, Myrtle Gentry, Hansina Brand, Mrs. Frank Beach, Hazel Kinney, Victory Chateau Thierry, and in fact all recent good Peonies.

1928 Catalog Free

Get your free copy of our 1928 catalog. Send for it now and when your order for Peony Roots amounts to $3.00 or over, we will send you a copy of our beautifully illustrated Peony Manual. Every Peony lover should have this manual because it is the most complete book of its kind ever published. Write for free Catalog today.

Growers of Peonies For 61 Years

THE BRAND PEONY FARMS

BOX 33 FARIBAULT, MINN.

More Facts About the Best Tulip Bulbs

Please do not consider our claims extravagant. We are proud of our Tulip bulbs as grown in our own nurseries, in Holland, because—

Year after year they win for our customers the Blue Ribbons at the majority of the country's most important flower shows.

Year after year, these customers come back for more of these prize winning Tulip bulbs and year after year we continue to exercise great vigilance to maintain our present high standard of bulb perfection.

"Bulbs in a Class All Their Own"

Are guaranteed to bloom true-to-name as per our catalog descriptions *or* they will be replaced free of charge another year. This unique guarantee should convince you that we know how those Tulips will "Behave" in your garden.

Above we offer a few particularly choice varieties. Let our *Free Catalog* (pronounced the most trustworthy Bulb Book published,) acquaint you with all we offer.

Zandbergen Bros., "Tulipdom"
Oyster Bay, Long Island, New York

Nurseries at Valkenberg, near Leiden, Holland and at Babylon, L. I., N. Y.

Ten Giant May-flowering Tulips

Unique in range of color, of various shapes and a great adaptability to different sections and soils, these ten will make a splendid showing everywhere—without costing a fortune! Order at once—send no money unless you choose. Bulbs will reach you at planting time.

Bronze Queen—Soft buff, inside tinged golden bronze, Height 28 inches. **65c per doz., $4.50 per 100.**

Clara Butt—Clear pink, flushed salmon-rose, with blue base and white halo. 22 inches. **55c per doz., $3.75 per 100.**

Dream—Pale heliotrope; inside deep violet with blue base. 26 inches. **65c per doz., $4.50 per 100.**

Grenadier—Dazzling orange-red, with rich yellow base. Most beautiful in this color. 21 inches. **70c per doz., $5.00 per 100.**

Inglescombe Yellow—Glossy canary-yellow. 23 inches. **60c per doz., $4.00 per 100.**

Louis XIV—Dark purple, flushed bronze, with broad margin of golden brown. 32 inches. **$1.35 per doz., $10.00 per 100.**

Mrs. Moon—Rich golden yellow with recurving petals. 25 inches. **75c per doz., $5.25 per 100.**

Picotee—White, margined deep rose, recurving petals. 24 inches. **60c per doz., $4.00 per 100.**

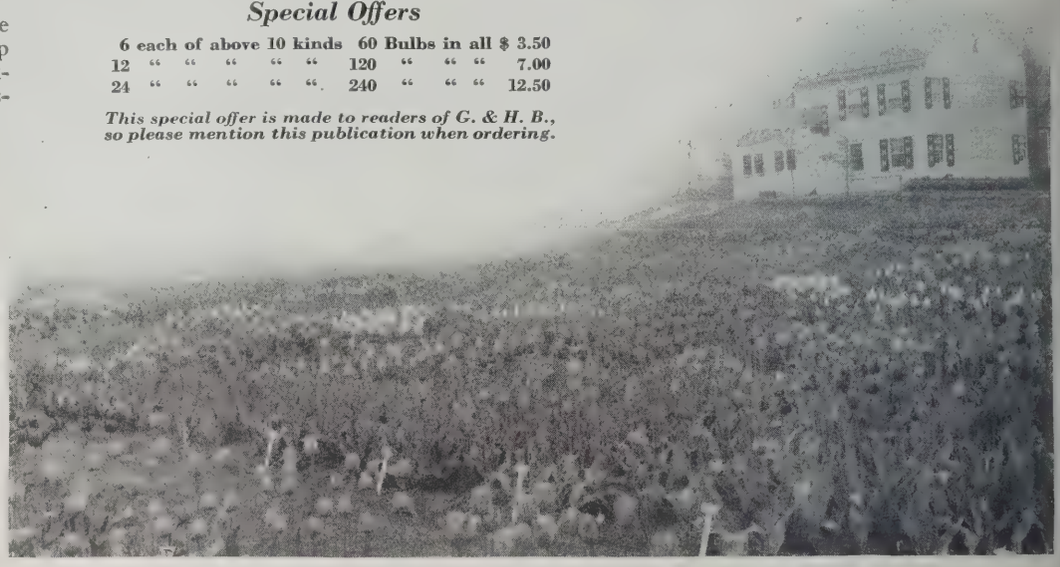
Pride of Haarlem—Brilliant rose-carmine. 28 inches. **60c per doz., $4.00 per 100.**

Professor Rauwenhoff—Bright cherry-red; inside glowing scarlet, with a brilliant blue center. 28 inches. **70c per doz., $5.00 per 100.**

Special Offers

6	**each of above**			**10**	**kinds**	**60**	**Bulbs**	**in**	**all**	**$ 3.50**
12	"	"	"	"	"	120	"	"	"	7.00
24	"	"	"	"	"	240	"	"	"	12.50

This special offer is made to readers of G. & H. B., so please mention this publication when ordering.



Another view of our Showgrounds during Tuliptime at "Tulipdom"

Purdy's Perennial Plants are Available all Winter

MY location in the California mountains at 2300 feet altitude gives me a cool summer, and a winter with many frosts. It gives hardiness without making it impossible to dig and ship orders at any time. My plants can be handled safely at any time from September till May.

My list is a long one. If you are interested in Rock Plants I have a very large number, with the finest American collections of Sedums, Sempervivums, Aethionemas, and a world of others.

In Irises my list is a picked one.

In Double Hollyhocks I offer 13 colors, each separate.

My Day Lilies are especially good.

If you want little plants for the interstices in flagging, or big plants for the border, I have them.

My catalog "Perennial Plants from all Over the World," is a book that you will keep for the valuable information that it contains.

Bulbs from California and the West generally are offered in another beautiful catalog. It will please you as will the Erythroniums, the Lilies and the Mariposa Tulips that it describes and pictures so attractively.

The two catalogs postpaid for the asking

CARL PURDY
Box 87, Ukiah, California

LILIUM REGALE

(*Queen of the Lilies*)

One of the finest hardy Garden lilies yet introduced. A vigorous grower, 3 to 5 feet. Large beautiful fragrant blooms.

Large selected bulbs

Ea.	Doz.— P.P.—	100
$.60	$6.75	$50.00

Extra selected mammoth bulbs

1.00	11.25	87.50

MICHELL'S Tulips and Lilies

FOR YOUR TREASURE GARDEN

Michell's DARWIN TULIPS

Color Plate Collection

	Per doz. postpaid	Per 100 postpaid	Per 1000 by express
MR. FARNCOMBE SANDERS . . . (*brilliant scarlet*)	$ .80	$4.25	$35.00
PRIDE OF HAARLEM . . (*brilliant rosy carmine*)	.80	4.25	35.00
DREAM . . . . (*rosy lilac and mauve*)	.85	4.75	40.00
LA TULIPE NOIRE (*deep maroon black*)	1.00	6.25	55.00
CENTENAIRE . . (*rich violet rose, blue center*)	.85	4.75	40.00

Color Plate Collection of Darwin Tulips

	By P.P.
6 bulbs, each 5 varieties, 30 bulbs .	$ 1.90
12 bulbs, each 5 varieties, 60 bulbs .	3.45
25 bulbs, each 5 varieties, 125 bulbs .	5.75
100 bulbs, each 5 varieties, 500 bulbs .	21.75

LILIUM CANDIDUM

(*Madonna Lily*)

One of the most popular and satisfactory American Garden Lilies. Waxy white flowers produced on strong stems with from ten to thirty blooms.

	Each	Doz.—P.P.	100
SELECTED BULBS	$.25	$2.65	$18.00
MAMMOTH BULBS	.35	3.75	25.00
MONSTER BULBS	.40	4.35	30.00
JUMBO BULBS, extra large . . .	.50	5.90	40.00

Write for our new Fall Bulb Catalogue

MICHELL'S SEEDS

520 Market Street - - PHILADELPHIA, PA.

The GARDEN AND HOME BUILDER. September, 1928. Vol. XLVII. No. 7. Published monthly by Doubleday, Doran & Company, Inc., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

For That Rockery ~ *Dreer's Unusual Bulbs and Seeds*

ROCKGARDENS are coming into their own! This latest rage of the confirmed hobbyist calls for materials different from those used in the usual type of gardens. Now is a good time to start new or improve already existing rockgardens. And here are a few varieties of flowers guaranteed to add to your garden joys.

DREER'S *Autumn* Catalogue *Helps*

It will help you to better gardens from Seeds, Bulbs or Plants, all of superlative quality and at prices within the reach of even the most modest purse. *Now* is the time to think of Spring gardens; now is the time to order your Tulips, Daffodils and such bulbs as are offered alongside, for every type of garden.

When writing please mention Garden & Home Builder

Earliest Rockery Flowers from BULBS

Chionodoxa or Glory of the Snow. Brilliant sky-blue flowers with white center soon after the snow is gone. **50c doz.; $3.00 per 100.**

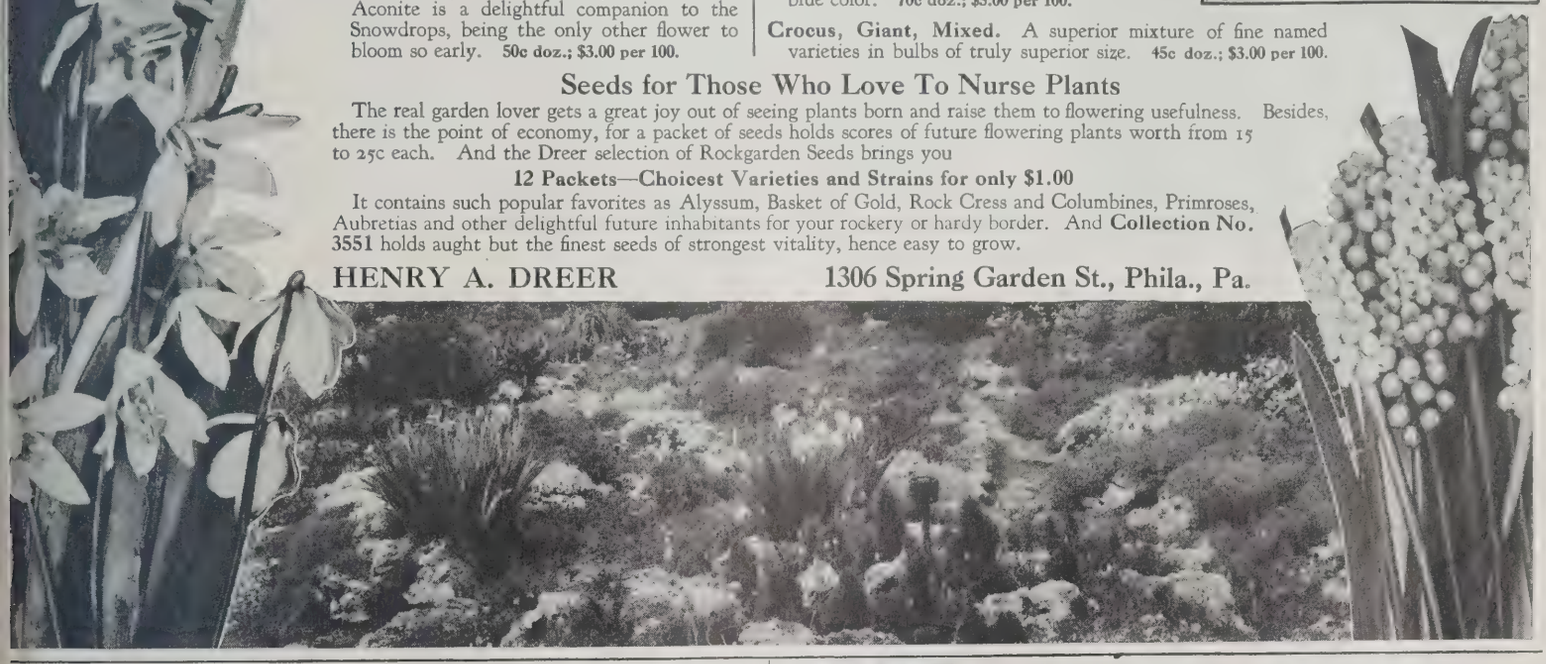
Snowdrops. They frequently "peep" through the soil before snow disappears, to gladden impatient gardener's hearts. **Single, 50c doz.; $3.50 per 100.**

Eranthis Hyemalis. The yellow Winter Aconite is a delightful companion to the Snowdrops, being the only other flower to bloom so early. **50c doz.; $3.00 per 100.**

Muscari or Grape Hyacinths. As illustrated in detail to right below are perfectly charming little fellows. Plant in clusters of six or more, for best effects. **Heavenly Blue** is the strongest growing sort. **50c doz.; $3.00 per 100.**

Scillas or Squills. The variety **Sibirica** as shown in detail to left, is of exquisite rich blue color. **70c doz.; $5.00 per 100.**

Crocus, Giant, Mixed. A superior mixture of fine named varieties in bulbs of truly superior size. **45c doz.; $3.00 per 100.**



Seeds for Those Who Love To Nurse Plants

The real garden lover gets a great joy out of seeing plants born and raise them to flowering usefulness. Besides, there is the point of economy, for a packet of seeds holds scores of future flowering plants worth from 15 to 25c each. And the Dreer selection of Rockgarden Seeds brings you

12 Packets—Choicest Varieties and Strains for only $1.00

It contains such popular favorites as Alyssum, Basket of Gold, Rock Cress and Columbines, Primroses, Aubretias and other delightful future inhabitants for your rockery or hardy border. And **Collection No. 3551** holds aught but the finest seeds of strongest vitality, hence easy to grow.

HENRY A. DREER 1306 Spring Garden St., Phila., Pa.

For Beauty of Flower and Foliage Broad-Leaved Evergreens Excel

PARTICULARLY is this true of Rhododendrons, Azaleas, and Kalmias, those lovely natives of the Appalachian range. Where soil conditions are favorable they are the most magnificent shrubs in cultivation—and soil conditions can be controlled, so these native plants can be grown almost anywhere.

In the nursery at Stroudsburg we have a score of varieties, in varying sizes adapted to any purse and planting. Our methods of propagating and growing give unusual character and value to these nursery-grown plants.

For extensive estates or public grounds we are prepared to supply plants collected under our personal supervision in the Virginias and North Carolina.

A booklet, telling our story and giving cultural direction in full, will be mailed on request to interested planters east of the Mississippi River.

LABARS' RHODODENDRON NURSERY
1109 Bryant Street **Stroudsburg, Penna.**

On With the New!

But be Sure of Your Choice

Never before have there been so many new things for gardens. Never before has the gardener been so "at sea" when selecting from the multitude of new introductions—yet he is keen to get these new things when *sure they are dependable.*

New Plants are Tested At Hicks Nurseries

Long before we offer a plant to our customers, we test it thoroughly; never do we "take a chance" with an unknown specimen. Our extensive collection of rare and unusual plants will appeal to homeowners and gardeners who are planning new grounds, or who wish to replace undesirables with others of value.

Here you will find Cotoneasters, Barberries, Kolkwitzia, Hicks' Yew, Junipers, Azaleas, Rockgarden plants, and others of distinct value.

If you wish to know more about Hicks' Rare Plants, write for a copy of *Home Landscapes*, which will be mailed promptly on receipt of your request.

HICKS NURSERIES
Box M **Westbury, Long Island, New York**

Spanish · Dutch · English IRIS

Spanish Iris—The Garden Orchid

PLEASE do not think of the "Flag Lily" or German Iris, but of a wonderful "Garden Orchid" that grows from a *true* bulb just as do tulips—not from root divisions—hence a different Iris—Hardy—Fall Planting. A planting of Iris *Bulbs* will make your garden a distinctive one—different—finer—better—Nothing equals the Bulbous Iris for cutting—they can be shipped across the continent when cut in the bud.

3 Peerless Dutch Iris

	Postpaid
Imperator—Early deep blue per 100	$7.50
Albert Cuyp—White—lemon falls per 100	7.50
Hart Nibbrig—Brilliant clear blue per 100	7.50
10 Bulbs each 3 varieties 30 in all	2.00
25 Bulbs each 3 varieties 75 in all	5.00
50 Bulbs each 3 varieties 150 in all	9.00
100 Bulbs each 3 varieties 300 in all	17.50

3 Rare Spanish Iris

	Postpaid
Blanche Fleur—White tinged lilac per 100	$ 8.00
Cajanus—Golden yellow per 100	9.50
Louise—Porcelain white per 100	8.00
10 Bulbs each 3 varieties 30 in all	2.50
25 Bulbs each 3 varieties 75 in all	7.00
50 Bulbs each 3 varieties 150 in all	12.00
100 Bulbs each 3 varieties 300 in all	22.50

Succession Collection

Bloom from May to June

	Postpaid
10 Bulbs Rembrandt	$1.50
10 " Hart Nibbrig	1.50
10 " Bulbs Blanche Fleur	1.00
10 " Cajanus	1.50
10 " Royal Blue	1.00
50 Bulbs Regular price	$6.50
Special Price	5.00
Double the above	9.00

Peerless Collection

	Postpaid
10 Bulbs Imperator	$1.50
10 " Albert Cuyp	1.50
10 " Cajanus	1.50
10 " Mt. Blanc	2.50
10 " Royal Blue	1.00
50 Bulbs Regular price	$8.00
Special Price	6.50
Double the above	12.00

My choice of varieties—100 Iris Bulbs $5.00 *Postpaid*

ORDER NOW—No Deposit Necessary—Pay on Arrival

These prices include postage or express and make the offers Great Bargains.

I specialize in Narcissus, Daffodils, Iris, Lilies, and other hardy bulbs for every type of garden.

George Lawler

Bulb Specialist

Gardenville · · Tacoma, Washington

George Lawler
Gardenville, Tacoma, Washington

☐ I prefer to enclose check in full payment and deduct 5% cash discount.

☐ Please mail me a copy of your free catalog.

Name .....

Address .....

.....

Iris Specials

Connoisseurs will recognize the excellence of the varieties offered and the low prices quoted.

This offering should be of special interest to Commercial Growers.

Many of these choice varieties have never before been sold at these prices.

Many of these prices are lower than listed in my Catalogue and apply only on orders received this month or next in response to this Ad.

AMBASSADEUR: The most popular of all Iris. Exceedingly rich and handsome. $ .90
MARGUERITE MARON: A gigantic, tall white Ricardi hybrid, a few fine plants at 1.75
HERMIONE: Another choice rare variety; valuable as a seed parent .....ea. 1.00
SUSAN BLISS: Finest pink. I paid $18.50 per root for my original stock 4 years ago .....ea. 2.50
SAPPHIRE: Intense Dauphin's Blue. Very early. Dwarf stature 1.00
ECLAIREUR: White standards edged violet. Rosy violet falls edged lilac.... 1.00
CANOPUS: A richly colored Dominion seedling recently sold for $25.00 ..... 1.25
ELGAMOUR: A gigantic purple bicolor recently sold at $20.00 each 1.00
FLAMMENSCHWERT: A gold and crimson maroon variegata Very fine ..... .75
MORNING SPLENDOR: Given the American Iris Society's Gold Medal for the finest American Iris introduced to date 6.00
ANNE BULLEN: Lavender-violet introduced in 1922 at $25 per plant 1.25
LADY BYNG: A sister seedling of Susan Bliss that sold in 1923 at $50 a root. Pale ageratum violet. A most exquisite coloring 1.00
OLIVER PERTHUIS: Of a richness of the fine Dominion seedlings, but not of Dominion parentage 1.00
LONA: An exotic peach colored plicata. More like an Orchid than any other Iris 3.50
DAPHNE: An improved Rhein Nixe. White and purple. Fine flower 1.00
MME. CHOBAUT: A choice yellow plicata ..... .50
MLLE. SCHWARTZ: An exquisite soft mauve. Very free flowering ..... .75
MARSH MARIGOLD: One of the finest variegatas ..... .75
LENT A. WILLIAMSON: Rated world's finest by the Amer. Iris Society in 1922 .40
MOTHER OF PEARL: Iridescent Mother of Pearl coloring ..... .40
FORSETE: A 1924 introduction. Fine medium blue self. Large and free flowering 1.00
DUKE OF BEDFORD: A gigantic velvety reddish violet that sold for $50 in 1924 7.00
FRANKLIN BEYNON: A fine, soft, pink toned self, 75c each .....3 for 2.00
BRANDYWINE: Light chicory blue of pleasing form and good substance, 1.25 3 for 3.00
MESTOR: One of the richest, earliest and longest flowering Iris in my collection 2.25
AMNARIS: An exceedingly rich violet blue. One of the best and largest 3.00
AUTUMN KING: Flowers in June and again in the fall 2.25
CITRONELLA: Very handsome, rich striped yellow of great carrying quality ... 3.00
HYPERION: A gigantic light blue with flaring falls. Very fine flower 4.00
LORD LAMBOURNE: Exceedingly early, rich fawn and crimson blend. Large flower 3.00
MICHELINE CHARRAIRE: The finest and most perfect white 9.00
MOONLIGHT: A gigantic creamy white. One of the largest of all Iris 8.00
MAGNIFICENT: A fine, rich red toned Iris 3.00
SOUV. DE MME. GAUDICHAU: The largest and finest dark purple 1.50
ALLIES: A wonderful new coppery rose blend 7.00

COLLECTION NO. 1

20 PLANTS in ten extra choice varieties of Bearded Iris, all quite distinctive and different from each other, all properly labeled, my selection, plants that would cost 50c to $1.50 per plant if selected separately. 20 Plants for $5.00.

COLLECTION NO. 2—$30 Worth of Choice Bearded Iris for $6.00

50 plants, assorted in many different varieties, my selection, without labels, for $6.00. As I have only the choicest varieties, you are sure to be pleased with this collection.

COLLECTION NO. 3—Siberian Iris

Many eminent authorities consider these the finest of all Iris. They are easy to grow by the waterside or in the garden, and are good for naturalizing. Free flowering and exquisite for cut flowers. 10 Snow Queen (the finest white), 10 Blue King (a gorgeous blue), 10 of another variety, my selection. TOTAL 30 PLANTS, all properly labeled for $6.00.

COLLECTION NO. 4—Dwarf Iris

Especially adapted for the Rock Garden, each a miniature jewel. They bloom just after the crocus have finished blooming. 20 PLANTS in five choice varieties, my selection, $5.00

COLLECTION NO. 5—Intermediate Iris

This section blooms just after the Dwarfs and finishes blooming just as the Taller Bearded Iris begin to bloom. They come in the early Spring just when flowers are most appreciated. Some very choice varieties will go into this Collection. 20 PLANTS in five varieties, my selection, all labeled for $5.00.

FOR MASS COLOR EFFECT—$6 FOR 50 OF ONE VARIETY

Your choice of any of the following pink toned varieties: ROSE UNIQUE, HER MAJESTY, PAULINE, LOHENGRIN, MAUVINE, MRS. ALAN GRAY, QUEEN OF MAY, SHREWSBURY.

Light Blue Toned Varieties: Celeste, Neptune, Sarpedon, Swatara, Trojana.

PURPLE: Oriental, Perfection.

I can also furnish Whites, Soft Yellows, Deep Yellows, Plicatas, Variegatas, Light and Dark blends and various colorings on the same basis for mass planting, if selection is left with me.

ROBERT WAYMAN

Bayside Long Island, N. Y.

What We Would Do This Month If We Were You

We would do two things, about each one of these, one things. Then we'd do another thing besides.

FIRST we'd go out doors and look the hardy things over carefully, and make a list of those needed, and we'd look especially carefully at Oriental Poppies, Pyrethrums, Iris, Peonies, and we'd plant them at once as they should be.

Then if I hadn't a rock garden, I'd plan it for this fall's making. Plant it in this month or in October. Not wait till spring.

Then we'd consider the Dutch bulbs needed, and also the wild bulbs and Tulip species for the rock garden.

After all of which, we'd sit down that very day and send an order to some dependable concern, who had a reputation that makes you know you will have both satisfactory and pleasant dealings.

May we suggest your sending for our catalog along with the rest? Its rock garden information you'll find particularly helpful.

Wayside Gardens

Reg. U.S. Pat. Off.

E. H. Schultz, Pres. — Mentor, Ohio — J. J. Grullemans, Sec'y-Treas.

Rosedale Prices Greatly Reduced

IT IS with great regret that I must close out my choice collection of Peonies which I have been making during the past 25 years. Stock must be moved to make room for the Saw Mill River Parkway. My fall catalog tells the story of sweeping price reductions in every department of the Rosedale Nurseries.

My 30 years of square dealing is known to a large clientele. To increase their orders and draw new customers, I am quoting most attractive prices. Write me to-day for a copy of my fall catalog.

My long experience and training is at your service.

S. G. Harris

Box A · Tarrytown · New York

Hitchings Greenhouses

"Here, honey, is the advertisement we're putting in the paper—"FOR SALE. Sixty foot power house-boat. Sleeps six and three crew. Luxuriously equipped for Southern waters. Reason for sale: Owner has bought a greenhouse, and prefers to winter North."
"Thats all right, except you might say 'distinctly prefers.'"

Send for booklet "Owning Your Own Greenhouse" and see for yourself.

Hitchings and Company

Elizabeth . . . New Jersey

1 Inglescombe Yellow
2 Baronne de la Tonnaye
3 Rev. Ewbank
4 Clara Butt
5 Farncombe Sanders
6 King Harold

SPECIAL OFFER

12 Bulbs	each	6	varieties	(72 bulbs)	$ 3.00
25 "	"	6	"	(150 ")	5.50
100 "	"	6	"	(600 ")	18.00
500 "	"	6	"	(3000 ")	85.00

CATALOGUE WITH BEAUTIFUL

VAN BOURGONDIEN BROS.
BABYLON, LONG ISLAND, N.Y.

Box

1 King Alfred
2 Horace
3 Spring Glory
4 Barri Conspicuus
5 Sir Watkin
6 Emperor

SPECIAL OFFER

6	Bulbs	each	6	varieties	(36 bulbs)	$	6.00
12	„	„	6	„	(72 „)		11.00
25	„	„	6	„	(150 „)		22.00
100	„	„	6	„	(600 „)		85.00

COLOR ILLUSTRATIONS "FREE"

VAN BOURGONDIEN BROS.
BABYLON, LONG ISLAND, N.Y.
Box B

Iris, Delphiniums Peonies, Phlox

Are Wellesley plants and flowers growing in YOUR garden? If not I wish you would let me send you one or more of the following collections which are offered at greatly reduced prices to induce you to give us a trial so that we may add your name to our growing list of *satisfied* customers.

Offer No. 1—12 Irises Worth More than $5.00 for $3.00
Blue Boy, B. Y. Morrison, Caprice, Cora, Fairy, Hiawatha, Isoline, Lohengrin, Monsignor, Paulaurea, Quaker Lady, Sindjkha.

Offer No. 2—12 Irises Worth More than $8.00 for $5.00
Afterglow, Prospero, Anna Farr, Anne Leslie, Cecil Minturn, Dusky Maid, Francina, Iris King, Juniata, L. A. Williamson, Queen Caterina, Steepway.

Offer No. 3—6 Peonies Worth $8.00 for $5.00
Avalanche, Germaine Bigot, Grover Cleveland, Mme. Boulanger, La Tendresse, Edith Forrest.

Offer No. 4—6 Peonies Worth $15.00 for $10.00
Baroness Schroeder, Eugene Verdier, Longfellow, Mme. Boulanger, Mme. Jules Dessert, Tourangelle.

Offer No. 5—6 Peonies Big Value at $25.00 for $15.00
Cherry Hill, Mme. Emile Lemoine, Milton Hill, M. M. Cahuzac, Nehoiden, Solange.

Offer No. 6—5 Peonies Well Worth $55.00 for only $30.00
Betty Alden, Grace Loomis, Kelway's Glorious, Longfellow, Therese.

Offer No. 7—12 Delphiniums, 12 Irises, 8 Peonies (unlabeled) for $5.00
If the Iris and Peonies were labeled they would amount to over **$8.00** without the Delphiniums.

100 Mixed Iris (at least 27 varieties) not labeled $5.00. 1000 $45.00.

Regina, Sask., Canada
July 24, 1928

The parcel of plants arrived in fine condition. I was not only pleased with the size of the roots but also with the unusual count. I have received many a generous count from my many friends in the flower line but none of them, I am safe in saying, were on such a generous scale as the one received from you. You surely live up to your advertisements.

You see I want you to know the kind of stock we send out and the service we give; hence these attractive prices. Catalogue?

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167 Cedar Street
Wellesley Hills Mass.

The BAY STATE NURSERIES

ANY HOME!

Whether pretentious or modest can be made beautiful—tasteful—attractive. A place of refreshing appearance, always a source of pleasure and satisfaction.

This can be quickly accomplished with shrubs, flowers, etc., judiciously planted, for less than most people expect.

The fall season is here again and from now until late October is the ideal time for the home owner to do this work. Shrubs planted this season will acquire a quick vigorous start and will give a much better effect next year than if set out in the spring.

Come to the nursery. Observe and enjoy our growing things. We can advise and help you in carrying out your ideas.

Upon receipt of a card our new 1928 catalogue showing all worthwhile varieties and many rare specialties will be sent free. Write us NOW.

The BAY STATE NURSERIES
W. H. WYMAN and SON Props.
NORTH ABINGTON. MASSACHUSETTS

Cultivate Your Garden's Health

THE very best cultivation you can give your garden is to keep it free from insects and blights. This is easily accomplished with the help of the greatest garden cleanser

Melrosine

Use it freely and frequently. It prevents rust, mildew, and other fungus diseases. It kills every bug it touches, including the greatest garden menace, Aphis or Plant Lice. Keeping the plants in thrifty, healthy condition assures greater crops of better fruits and flowers.

Free leaflet on request. If your dealer does not carry Melrosine we will supply direct.

GARDEN CHEMICAL COMPANY
Park Avenue & 146th St.
New York, N. Y.

Betscher's New Hemerocallis

The Cream of Thousands of Fine Hybrids of Super-Superb Day Lilies

As large, fine and showy as lilies—all shades of lemon-yellow and orange—three to eight inches wide, eighteen inches to six feet high. With us they bloom continually from May until September. As hardy as oaks, easy to grow, sure to bloom. And they have absolutely no pests to bother them. Few plants bloom as freely and as long, and their superiority is especially pronounced during hot, dry years when other perennials go on a strike.

Unsurpassed for landscape work. Fine for edging drives, pools, and water gardens. As a cut flower they are absolutely unique in their lasting qualities. At the Harvard Botanical Gardens in Boston, the planting of fifty distinct sorts has proven a Mecca for hundreds of flower and garden lovers.

I offer *twenty-one new and distinct varieties* of great beauty as follows:

$2.50 each; $30 per dozen; $250 per 100.

Other stocks of plants I grow here include twenty acres of very choice dahlias; twenty acres of finest Peonies; ten acres of gladioli—and many others.

Send for my list today

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"On Highway Number Eight, Miami to Cleveland"

ANDORRA

High Grade Stock of Ornamental Trees and Shrubs

Catalogue on Request

ANDORRA NURSERIES, Inc.
CHESTNUT HILL PHILADELPHIA

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Our choice high-rated Peonies are now within the reach of all garden lovers. Standard 3 to 5 eye plants true to name. 10% discount on all orders of $25.00 or more.

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9.9	Le Cygne, milk white	$ 7.00
9.8	Kelway's Glorious, creamy white.	10.00
9.2	Jeannot, pink	8.00
9.1	Martha Bullock, large rose-pink.	6.00
9.4	Tourangelle, cream, carmine heart	3.00
9.8	Therese, satiny pink	3.00
9.7	Solange, creamy copper	3.00
New	Mr. L. Van Leuwin, dark silver pink	5.00
8.7	August Dessert, crimson carmine.	8.00
9.2	Philippe Revoire, dark crimson..	10.00
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9.0	Milton Hill, pink	3.00
8.8	Mons. Martin Cahuzac, dark garnet	2.50
9.0	Sarah Bernhardt, deep pink	2.00
9.0	Phyllis Kelway, pink	5.00
8.8	Richard Carvel, brilliant crimson	4.00

Two-eye divisions of any of above Peonies at one half price.

H. R. LAWRENCE Elmhurst, Ill.
Ornamental Nursery

ORCHIDS of The North

OLD in appearance, yet se- clusive in their habits. the nderfully hardy orchids of the rth Woods seem to quicken pulse with the spirit of ad- ture and carry one back three turies to the days of the voy- ur, the fur trader, and the neer. Although detesting ilization, these hardy orchids l grow and blossom for you onditions are made to approxi- te those of their natural habi- . The four finest varieties :

PRIPEDIUM SPECTABILE: Showy dyslipper. On hummocks in the cold bogs, aded by fragrant Balsam and Cedar and company with Bunchberry, Bluebead, and oldthread, the pink-striped Showy Lady- pper presents a striking picture of exotic eliness in a cold, almost harsh, northern tting. Use plenty of leafmold in planting is. **40c each; $4.00 per 12; $30.00 per 0.**

PRIPEDIUM PARVIFLORUM: Yellow dyslipper. In moist clay soil, shaded by ck ash or other hardwoods, and accom- nied by Golden Ragwort, Poke, Jack in the lpit, and Ferns one finds this golden yellow, tensely fragrant Ladyslipper. When once tablished it is usually long lived. **35c each; .50 per 12; $25.00 per 100.**

PRIPEDIUM ACAULE: Pink Ladyslipper. ore democratic than the preceding, the nk Moccasin Flower frequents the pine and ueberry barrens of southern New England well as the rich forests of the north. Under vorable conditions it will seed freely, but soil *must be acid.* **25c each; $2.00 per ; $15.00 per 100.**

BENARIA FIMBRIATA: Giant Purple inged Orchid. The largest of our northern benaris, growing over two feet and of such licate lavender color and pervading fra- ance as to cast at least a temporary spell er one who beholds it for tbe first time. ant in moist partial shade. **35c each; .50 per 12; $30.00 per 100.**

ECIAL OFFER: If you wish to these four orchids we will send you ***of each for $2.50 or ten plants each for $10.00.***

When you get a chance, please visit ere in the Vermont hills and see the s of Rock Plants, Perennials, Ever- ns, Shrubs, and Ferns from which will fill your orders, but in the ntime we will gladly send you our alog, if you ask for it.

GEORGE D. AIKEN
Box V Putney, Vermont
"Grown In Vermont, It's Hardy"

Tulips & Springtime!

To enjoy them together in your own garden next season

Plant Schling's Bulbs *This Fall*

DARWINS and Cottage, single and double, early and late—their lovely cups brimming with color and nodding a merry "good morning" to you every day for weeks—from early April to June in fact—How can you afford to miss them!

You can't have too many of them! Order now and generously, plant them this fall and we promise you a winter of pleasant anticipation, a springtime full of delightful surprises and years of recurring pleasure.

To bring the joys of Tulip time to as many as possible we make the following very special offers, all bulbs guaranteed top size and very first quality.

Schling's Special Border Collection

Of gorgeous Darwin and Cottag Tulips

(as pictured above in order from right to left)

	Per 100	Per 1000
Clara Butt—Exquisite Salmon pink Darwin	$4.75	$43.00
Picotee—White cottage petals edged with pink	4.75	43.00
Pride of Haarlem—Darwin, American Beauty color	5.00	43.00
Dream—Charming lavender Darwin	5.50	50.00
Bronze Queen—Buff tinged with golden bronze	6.00	55.00
Zulu—Enormous size Darwin of deep velvety purple	6.00	55.00
Golden Beauty—Glorious golden yellow Cottage	5.50	50.00

25 Bulbs at 100 rate; 250 Bulbs at 1000 rate

Very Special

100 Bulbs each of 7 varieties above (700 in all) . . . $34.00

VIRGINIA GROWN

DAFFODILS and NARCISSI

FOR NATURALIZING and LAWN PLANTING

100 Bulbs $8.50	Our *Old Dominion Collection* in choicest mixture of airy and medium Trumpets, short cupped and lovely Poet's varieties. All first quality bulbs grown in Virginia where their culture has flourished since Colonial days. These bulbs, being native, are fully acclimatized and none better can be grown anywhere. The supply will not equal the demand. *Order at once!*	1000 Bulbs $80.00

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Each a wonderful value—*at present prices*

100 Single Early Tulips in 10 named varieties	$6.00
100 Double Early Tulips in 10 named varieties	7.00
100 Darwin Tulips in 10 named varieties	4.50
100 Cottage Tulips in 10 named varieties	5.00
100 Breeder or Art Tulips in 5 rare named varieties. Wonderful shades of Bronze, Buff, Orange, and Apricot	7.00
100 Parrot or Orchid Tulips in 4 named varieties	6.00
100 Bedding Hyacinths in 4 colors	14.00
100 Crocus in 5 named varieties, 1st size bulbs	4.00

5% Discount—if cash accompanies order

Extraordinary Offer

100 DARWIN TULIPS $3.50

Choicest, first-size bulbs, sure to bloom. Schling's Special Mixture made up especially for us from ten of the finest named varieties—not at all the ordinary field-grown mixture usually sold.

A $6.00 value for only $3.50

Send for our Fall Bulb List—many other enticing values offered and described

Schling's Bulbs

MAX SCHLING SEEDSMEN, INC.,

Madison Ave., at 58th Near 59th St., New York

We grow bushes; You pick the roses!

Roses in your garden—roses in your house—you get *roses* when you plant "Star" Rose bushes, for they're *guaranteed* to bloom.

We *can and do* guarantee "Star" Roses because we sell only the sturdiest budded stock—three-year-old plants. Roses first planted in 1928, for example, will not be sold until 1931. Our own testing grounds and "Star" gardens give us accurate information as to the beauties, the faults, the growing possibilities of *all* varieties—both old and new. Also, letters from our customers keep us posted as to their experiences, and constantly help us improve "Star" performance.

Thus, your success is assured.

Because our own rose garden, the show place of "Star" Roses, is fall-planted, we suggest fall-planting for your roses. It gives your roses an early start, and they grow sturdier and hardier than if spring planted. They'll blossom sooner, too!

If you don't know exactly what to plant this fall, consult our "Fall Guide to Good Roses." It lists and illustrates the "Star" varieties—*all guaranteed.* Several newest novelties are described. You'll find joy and satisfaction in its pages. Send for it today. Use the coupon.

CONARD-PYLE CO.

Star Rose Growers

Robert Pyle, *President*, West Grove, Pa.

The CONARD-PYLE COMPANY
Star Rose Growers
Box 24, West Grove, Pa.

I want roses that bloom all season. Send me your *free* "Fall Guide to Good Roses."

Name.....

Address.....

P. O.....

A Sight to Gladden Plant Lovers' Hearts!

NATURE has been good to us this season. A year ago at this time we congratulated ourselves on the appearance of our fields of Evergreen and Deciduous Shrubs. This year we congratulate *you* and our customers. Never, in the history of our business have we had the thrifty, shapely, nearly 100% perfect specimens, in as large blocks, as this year. Among others, we are particularly proud of some fine blocks of

Rhododendron carolinianum

This Carolina native thrives equally well in sun or shade, has beautiful foliage at all seasons. Pale rosy pink flowers during early June.

	EACH	10	100
9-12 in. clumps	$2.00	$17.50	$150.00
12-15 in. clumps	2.75	25.00	225.00
15-18 in. clumps	3.25	30.00	275.00
18-24 in. clumps	4.00	37.50	

Kalmia latifolia

Is our native Mountain Laurel. We think of it as the bright-eyed maiden of our woods. After its rosy-pink and white flowers cease to shine, the glossy, deep green foliage continues to make Laurel one of the best-dressed plants anywhere.

	EACH	10	100
12-15 in. clumps	$1.20	$10.90	$ 90.00
15-18 in. clumps	1.60	15.00	125.00
18-24 in. clumps	2.50	22.50	200.00

Azalea calendulacea

This flame Azalea continues to leave our nursery in greater quantities each year and faster than we like to see it go. Its orange, yellow, and flame-red flowers, during May and June, transform any bed into a gorgeous spectacle. The variation of the individual plants, in the shape, size, and color of their flowers, constitute a never-ceasing miracle.

	EACH	10	100
1-1½ ft.	$2.50	$20.00	$175.00
1½-2 ft.	3.00	25.00	225.00
2-2½ ft.	3.60	33.00	

Prices quoted above stand for symmetrical stock lifted with ball of earth, carefully balled with burlap and securely packed for safe arrival anywhere,

Complete Catalog and Special Fall Offers gladly mailed free to all interested in the naturalistic type of gardens and landscapes.

GILLETT'S

Fern and Flower Farm

3 Main Street
Southwick Mass.

At it Half A Century!

BEGIN to PLAN NOW

To PLANT SOMETHING INTERESTING and WORTH WHILE that will further beautify your grounds and thus give your home an added grace and dignity that appeals to one so much.

Our catalogue will help you in selecting some WONDERFUL GERMAN and JAPANESE IRIS that may be planted now. CHOICE EVERGREENS that you may plant anytime after mid-August. QUALITY PEONIES—PHLOX—HARDY GARDEN PERENNIALS can be planted with best results from early September on. And then when the leaves begin to ripen and fall you may begin to plant out your ORNAMENTAL SHADE TREES—FLOWERING SHRUBS and VINES.

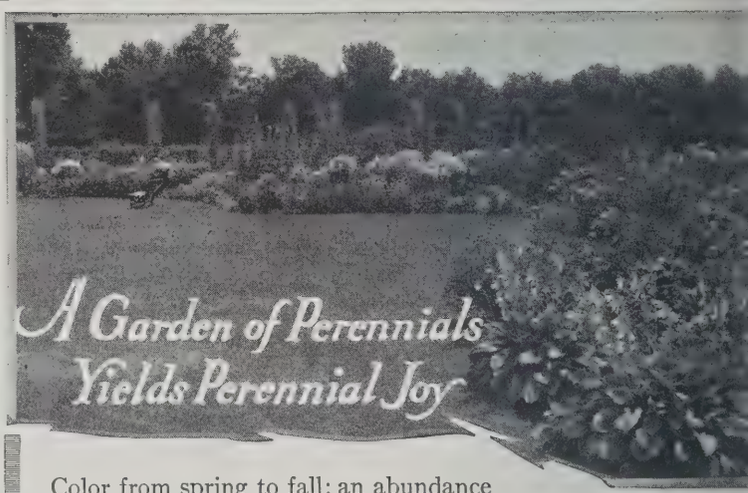
We know that the CHERRY HILL QUALITY will suit you, and, best of all, our prices are reasonable.

CHERRY HILL NURSERIES

(T. C. Thurlow's Sons, Inc.)

West Newbury Massachusetts

Not Open Sundays



Color from spring to fall; an abundance of flowers for cutting; sturdy and hardy in habit, needing little care. These are the outstanding points of Horsford's Hardy Plants. Hundreds of varieties are ready for moving this fall. Our catalogue—which will be sent free—will help you to select the finest plants for your hardy garden.

EVERYMAN'S LILY COLLECTION

To introduce our northern-grown Lilies we offer a special collection of extra value—in fact the greatest value we have ever been able to offer to our friends.

Early	Medium	Later Flowering
L. elegans	L. regale	L. batemanniae
L. hansoni	L. superbum	L. speciosum rubrum
L. croceum	L. candidum	L. maximowiczi

27 Bulbs (9 varieties, 3 of each) **for $7**

Two Collections (6 of each) **for $13**

When ordering, please specify "Everyman's Collection"

F. H. HORSFORD Charlotte, Vermont

GARDEN & HOME BUILDER

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VOLUME XLVII NUMBER VII

Cover design after an original by Ashton Woodman Reniers

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FORECAST for OCTOBER

WITH the forthcoming October issue we take a very great pleasure in offering to the good friends of Garden & Home Builder our successor, THE AMERICAN HOME. THE AMERICAN HOME comes to you with all the high principles of the older publication, plus many new ideas and opinions. Home makers the world over, who have high ideals and a moderate purse, and who have been looking for friendly help and inspiration in furnishing and planting their homes, will find it in this new home-making magazine.

In this maiden issue of THE AMERICAN HOME come, among many other interesting discussions, 'Lessons in Decoration' by Lucy D. Taylor—a little help on the very A B C's of home decorating. 'First Steps in Gardening,' by Ellen Eddy Shaw gives just the same assistance to the beginning gardener. 'Hidden Qualities of a Good Bed' by Phoebe Cole, and 'Rugs—How to Buy and Care For' by Grace Daggett are extremely practical discussions of subjects that touch every home maker. 'The Lure of the Under Glass Garden' by F. F. Rockwell, Adolph Kruhm's 'The Fascinating Fun of Rock Gardening,' 'The Care of House Plants' by Florence Taft Eaton, and 'Windows and Doorways for Health' by Anne Pierce are but suggestions of the wealth of material to come.

LEONARD BARRON, Editor *LUCY E. HUBBELL, Managing Editor* *ELLEN D. WANGNER, Associate Editor*

DOUBLEDAY, DORAN & COMPANY, INC., Garden City, N. Y.

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ARE YOU ASHAMED OF YOUR FLOORS?

Scrape and refinish them *yourself*—this amazing little machine does all the heavy work.

LOOK at your floors. Are you satisfied with them? Completely satisfied? Proud of them?

You could be. You could make them ten times lovelier. You could make them envied by every neighbor—admired by every visitor. Within a day you could transform them—quickly change them from dingy surfaces, luckily covered up for the most part by rugs, to gleaming, spotless places of which you hate to hide a single inch.

"Oh no!" you say, "Not my floors!" Oh yes, we answer, *your* floors, ANY floors. The most neglected floors have possibilities. Layer upon layer of old shellac and varnish may disfigure them. Year upon year of ground-in dirt may seemingly defy removal. Yet underneath there is the clean and honest wood—the hidden warmth and color of the grain.

"But the expense?" you say. "I've had them give me estimates. What about the hundreds of dollars refinishing will cost me?" This advertisement offers you a way to overcome that difficulty. It calls your attention to the most remarkable machine ever made for household use—a machine that refinishes floors, scrubs floors, polishes floors—a machine that costs but a fraction of what you usually pay for *one* refinishing job. With it you yourself refinish floors with ease. The apparently impossible job of taking off the old shellac and varnish becomes absurdly easy. The manifestly back-breaking jobs of sand-papering and rubbing in new wax turn out to be a matter of merely guiding a machine. And these jobs only need to be done *once!* A few minutes waxing and polishing each week with the machine, an operation so simple that a child can master it, *keeps* your floors looking always as though they had been refinished the day before.

This is not mere enthusiasm. The claims we make can easily be demonstrated. In twenty-four branch offices we have men ready and anxious to show you *in your own home*, what the Ponsell Floor Machine can do. In thousands of homes it has already won the unqualified praise of users. No matter what the floor—wood, tile, rubber, cork, linoleum or cement—it is a permanent labor-saver. It gives linoleum a lustre surpassing anything you have ever known before—a surface so immaculately smooth that dust and dirt have a hard time sticking to it. It does away with all the severe drudgery of cleaning. Gone is the stooping and kneeling, the wear and tear on your hands of water, soap, cleaning fluids, scrubbing brushes and wet rags. Gone is the dismal labor of rubbing, and mopping, and drying.

Just what the Ponsell Floor Machine does, and how it does it, is a fascinating story. It is a story that every homeowner should read. We offer you an interesting booklet that contains it—a clear, brightly told description interlarded with explanatory pictures. With your eyes on your floors, can you say, "No, I am not interested." Take the first step toward more beautiful rooms. Mail the coupon or write a letter for further information on how to refinish your floors *yourself*. Ask us for a FREE demonstration—or, if you are too far from our nearest office, a ten-day FREE trial.

Ponsell Floor Machine Co.
Dept. G. H. 9F, 220-230 West 19th St., New York City

Please mail me a copy of your free booklet, "Beautiful Floors—at a Saving of Hundreds of Dollars." This does not obligate me in any way whatever.

Name_____

Address_____

City_____ State_____

G & H B 9F-28

We'll be your architect and builder too

Too busy to build? Too busy to bother with the many details of construction? Then, you should consult the Hodgson Plan. Hodgson Houses are shipped to you in sections, carefully finished and all ready to erect.

Right now—this fall—you can build a cozy home up in the mountains or by the sea. A summer vacation home or a week-end place for late fall hunting and fishing trips. Or, if you prefer to build your Hodgson House next spring, select your site now, and the type of house you want.

If you wish, we will be responsible for the entire construction. Our service department will place contracts for plumbing, lighting, heating and masonry. Yes, and even landscaping. We'll relieve you o every building worry.

Hodgson Houses are expertly buil from red cedar and Douglas fir Staunch and absolutely storm-proof New illustrated booklet gives prices plans and complete information abou all types of houses. Send for fre booklet K today. Or visit the show-rooms at our Boston and New York offices. E. F. Hodgson Co., 1108 Commonwealth Avenue, Boston; 6 East 39th Street, New York. Florida branch, Bradenton.

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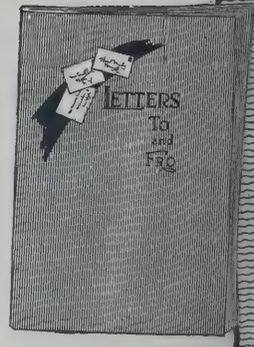
In Practically a Jiffy

it Takes the Troublements Out of Home Heating



HERE'S a book that guards you against the dark spots; and tells you how to get the bright spots out of your home heating.

Of course you don't particularly care about the innards of a boiler.

But you do want to know the inside of how to get the most heat comfort from the least fuel cost.

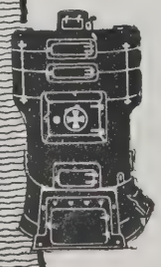
Furthermore, you want it first hand from those who had an actual hand in doing just that thing.

All right then, here is exactly what you've been looking for.

It's called "Letters To and Fro."

The name doesn't tell you much but its text does.

Send for it and see for yourself.



Burnham Boiler Corporation

IRVINGTON NEW YORK

Representatives in all principal cities of the United States and Canada

Come Into the Garden

THE time was, and not so very long ago either, that every home garden had its vegetable plot. It was a good old-fashioned custom, and one to which we might return with advantage. The lessened interest in vegetable growing in the little home plot is seemingly a direct reaction from the stupendous war-garden activity of a decade ago.

It was then proper to plow up the front lawn and give it over to potatoes, beans, or tomatoes. The reaction was a revulsion which made itself felt in a very tangible way in the seed trade. People with gardens turned their backs to the utilitarian and in the last decade, the aesthetics—flowers and plants grown purely for ornament—have gone forward in such bounds as to seriously upset the relationships of the two departments in the seed trade. The proportionate demand for vegetable seeds in the last few years has been very noticeably less than it used to be.

It seems to me that the home gardener is missing out on something very real when he omits to grow some, at least, of his vegetable needs. Except where large areas are available, it is not worth while for the small gardener to bother with cabbage and potatoes, which are really field crops rather than garden crops, and these, without question, can be bought just as fine as, perhaps even better than, they can be grown at home. There is something about home-grown sweet corn, that is put into the pot to boil almost on the instant that it is taken from the stalk, that can never be realized from corn that is bought along the roadside.

True, in a good many of the outlying districts surrounding most towns and villages the automobile has made it quite possible for the housekeeper to draw on neighboring farmers and truck drivers for fresh vegetables. And so there may not be the real necessity for home-grown crops—even of the more perishable vegetables—that there used to be in days gone by. But all the same, we are losing something when we do not grow some of our own crops, because the market variety is usually dominant in that field because of certain inherent qualities, such as quick cropping or good shipping quality, toughness of skin, or something of that sort that is the antithesis of what is most desirable in a table vegetable.

A parallel thought can be applied to many fruits, too, especially the small and bush fruits, for in many cases these tender products are picked—must be picked indeed—before they are really ripe if they are to be transferred any distance or to undergo any handling, whereas, in the home garden strawberries, for instance, may be allowed to ripen to the limit and so attain a perfection in flavor and aroma that are unknown in the purchasable article.

Commercial standards and home standards are not identical and the work that is being done in various quarters, and particularly at the New York State Experiment Station in the definite breeding of fruits has given the home fruit grower—you could hardly call him the orchardist—opportunities for long season of product by having varieties that ripen in succession, that is practically impossible in the general way of commercial orcharding. And surely it is worth while right at this time to give a little thought as to the possibility of planting these improved varieties in the present planting season. Almost all these fruit trees can be safely planted in the fall—at all events over the greater portion of the country—with the exception always, of course, of what are called the stone fruits—Cherries, Plums, and suchlike, because they belong to that group of plants with thin bark which do not take kindly to fall planting.

The gardener who grows vegetables in the home plot is much more likely to get the full benefit of green food than can be had from the marketed article. Everybody has become very familiar with and talks glibly about vitamines and the old-fashioned notion that 'green vegetables are good for you' has been proven to have a very real foundation in fact. It is strange indeed how so many of these old-time customs and thoughts and habits which have passed into current practice are found to rest on reason. The experience of the ages has been justified by modern research in so many cases. Take this matter of vitamins, for instance: although we know practically nothing as to what we are talking about when we say vitamins, we do know that there is a something or other wrapped up in connection with our foods the presence or absence of which makes the food valuable or useless. It is so with one of the vitamins that seems to be correlated with green color in vegetables—the vitamin that is concerned with the actual growth in animal life. This 'vitamin A' is found in abundance in the leafy parts of plants when they are green, but it seems to be absent when the leaves of those same plants have been blanched. Therefore, blanched asparagus is not so good as the naturally grown green asparagus. Blanched lettuce may please the eye, but it does not feed the system with that element that is found in the lettuce when it is grown unblanched. It is easier to produce the natural plant anyway.

Rodents in captivity fed a vegetable diet of blanched product died, when another lot fed with the same vegetable, but green, survived and thrived. And so we see green vegetables 'are good for you' after all. Now we almost know why, if not how. And it is these green vegetables fresh from the home garden that surely justify a little vegetable patch if nothing else did so. Let's all grow and eat more green vegetables.

Here is yet another book on Lilies. I have already mentioned recent publication in this column, now I have to add to the group of recent books a splendid cultural manual by Walter N. Craig, of Massachusetts. Mr. Craig has long ago earned the reputation of being a skillful culturist, one of the best in fact, and he has in this recent volume ('Lilies and their Culture in North America,' Chicago: Florists' Publishing Co.) given us a series of short chapters with the details of the routine of culture of the various Lilies that the average person is ever likely to bother about. Lilies are queer things culturally. There are lots of details we do not understand. Mr. Craig tells frankly what has been his practice and his experience. You may not agree with him in every point, but the fact remains that he tells you how he has had success in the neighborhood of Boston, and that stands for a lot.

Leonard Barron

Photograph by Mattie Edwards Hewitt

AN AUTUMN EFFECT JUST FIVE MONTHS AFTER PLANTING

Garden designed by Alderson & Dell; other views on pages 608, 609

GARDEN & HOME BUILDER

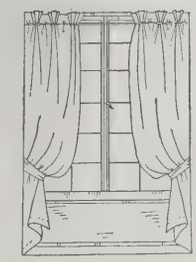
An interestingly shaped valance with binding and matched tie-back straps

Making and Hanging Your Own Curtains

Measurements and diagrams for cutting and draping

MRS. GENE A. KEMPSON

The old involved system of overdraping windows with a multiplicity of curtains and confusing complication of lines, color, and texture has given way to window treatment in a simpler form. This change is reflected greatly in the construction of overdraperies—heavily festooned valances and elaborately trimmed side curtains are now seldom used.



French Heading

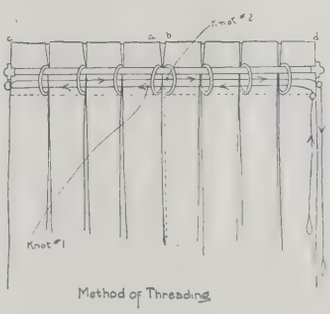
Of the various types of curtains no single factor plays so important a rôle as the versatile draw or casement curtain, or combines so well usefulness and artistic merit. In a broader sense, draw curtains are those equipped with cords and pulley attachments capable of adjustment. Specifically, however, they conform to certain rules of construction based on the purpose for which they are to be used. Whether regulating the amount of light and air, or furnishing an emphasizing or contrasting note in color or texture, they are of special interest and importance in the decorative scheme. Used alone with overdraperies they take the place of glass curtains and window shades; with glass curtains they form overdraperies when drawn back, and furnish a charming background when pulled together. Windows are often satisfactorily framed by draw curtains alone.

The function of the curtain determines the type, color and texture of the materials to be used. Mohair, silk and cotton casement cloth, pongee, Japanese crepe, China silk, shiki, silk and cotton gauzes, and rayon are all typical casement fabrics. Those most frequently used, however, are the casement cloths, pongee, etc. Many splendid color schemes can be worked out with cretonnes, prints, taffetas, and damasks. Particularly appropriate for offices and places where no other curtains are used, are curtains of cotton casement cloth in neutral shades. These are most effective in creating a dignified background and softening in many instances the hard architectural features of the modern office building.

Where plenty of light and air are important factors, such as the nursery, curtains which admit of adjustment are essential. A washable casement cloth or lined cretonne heavy enough to provide a light-shield or screen for the morning and afternoon naps should be used.

Group and bay windows, though forming interesting architectural features, impose many obstacles to the decorator in the way of successful curtaining which the draw curtain goes far in meeting. In lovely textures and color effects they provide the simplest treatment for these windows as the softer casements can be hung over the dividing mullions of these windows effectually, without the disturbing effect of the many vertical lines created by a heavy overdrape. If color is necessary, bands of contrasting hues may be applied to curtains on the room side only. The casement windows lend themselves best to this type of curtain as they can be adjusted to admit of free movement of the window. If a valance is used on groups of casement windows, it should be hung above and just covering the casing.

It is in the sunroom, however, that draw curtains reach the peak of their usefulness, where they fill the dual rôle of window shades and curtains. The uniformity of the exterior is best served by using a neutral casement cloth here, or providing a neutral lining of sateen for colored fabrics.



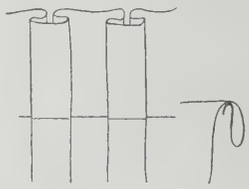
Method of Threading

On some windows it is found advisable to use a double or Dutch set of draw curtains, one pair on each upper and lower sash. They admit of greater regulation of light and air than a single pair by divid-

Exceedingly simple and yet perfectly adequate for all purposes are these patterned casement curtains in the living room of Mrs. Benjamin F. Betts

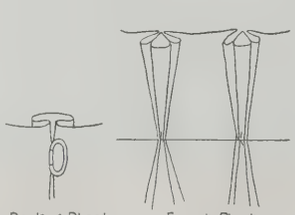
Long over-drapes in color with French pleated headings and effectively tasseled pull-cords

ing the light horizontally, and add a new line to the background. The upper pair should be hung to conceal the heading of the lower. Sunroom groups of windows consisting of two, three, four, and sometimes the entire side of the room are often provided with one pair of draw curtains for each group. However, if too large an area is left exposed when curtains are drawn back, use a valance to carry the eye across. The continuity of the decorative scheme is thus preserved.



Casement curtains are not difficult to make if care in measuring and cutting is exercised. Measure the space they are to occupy from the inner or glass edge of the trim when used as glass curtains, and the extreme outer edge when used alone. The length is also determined by their place in the general scheme. A safe rule to follow in measuring the length is to stop them at some architectural break such as sill, apron or floor. The baseboard does not furnish a good finishing point. When used with other curtains such as glass curtains, which stop at the sill, the apron is a better place to finish them as this gives a more pleasing line combination.

Material twice the width of the window is usually sufficient for the various pleated and shirred headings of which the French pleated heading is the most popular.



Allow on the length from 10 to 12 inches for heading and hem to provide for the double turnover; at the top and bottom, a hem of from 1 to 4 inches finishes the bottom, 1 to 2 inches for the sides and $\frac{1}{4}$ inch hem for the outside. When using light-weight materials, a piece of shade cloth or buckram should be inserted in the heading for the formal French pleat. The fullness allowed in the width of the curtain should be evenly divided into pleats, the first of which should start about 1 or $1\frac{1}{2}$ inches from the center and the last $\frac{1}{2}$ inch from the outer edge. For box pleats, stitch pleat down on each side about 6 inches from the top. For French pleats divide each large pleat again into three small pleats and catch together with a thread. Sew rings or hooks, if used on a track, in the back of each pleat about $1\frac{1}{2}$ or 2 inches from the top.

The mounting of these curtains is not as difficult as the threading of a sewing machine, yet most people approach it with a mental hazard. The equipment needed is one flat or round rod to fit the space, a single and double pulley, two brackets with sockets and a cord twice the width and length of the curtain or about five yards for the average window, and the curtains with rings already sewed into place. Slip all the rings of the (*continued on page 652*)

Consider the Cellar

How to make a 9-room house under an 8-room roof

ROGER B. WHITMAN

IT IS one of the axioms of building that, speaking generally, the cost of a house increases with the extent of the roof that covers the necessary rooms; that the smaller the area of the roof the less will be the cost of construction. The relative costs of a 9-room and an 8-room house, for instance, will thus follow the comparative areas of their roofs. With the shrinkage of the building dollar thus there would be a desirable economy in covering nine rooms with an 8-room roof, and fortunately for the house builder, this has been shown to be possible through the making use of cellar space that ordinarily is wasted.

As a general thing, a cellar is poorly lighted and ventilated, with unfinished walls and ceiling, often inclined to be damp, and suffused with dust from coal bin and ash can. None of these conditions is fundamental, however, and under the spur of necessity the conversion of a cellar to a livable part of the house has followed the simple application of modern methods and materials.

The making of a usable cellar room is easiest when it is part of the original plan, for windows, partitions, piping, and other parts can then be designed with that end in view. To carry out the idea in a finished house might require somewhat extensive alterations; but if one can be satisfied with a little less than perfection, and is willing to put up with minor inconveniences for the sake of increased space, much is possible with little expense and effort.

With a separate flight of stairs, a cellar room can become a den, a card room, a tap room. With stairs that can be used only by the family and intimates, cellar space may become the sewing room or the laundry, the safest of playrooms, or a workshop or hobby room; at any rate, a place of quiet retirement.

Possibilities are wider should the house stand on ground that slopes sufficiently to expose full length windows or even to permit an outside door, for cellar space can then become a bedroom, or, as in a notable example, a dining room served from an upstairs kitchen and giving out on a charming and secluded terrace.

The first essential of a cellar room is that in floor and walls there shall be no trace of dampness. On sandy ground and with good drainage this will be assured by swabbing the outside of the foundation walls with asphalt or tar, or by making the concrete walls non-absorbent with any of the preparations offered for that purpose. This is done in the mixing of the concrete. As the soil is denser there is need for greater care, for water may collect beneath the floor and work its way through. In extreme cases the surest protection is with membrane waterproofing, the building into wall and floor of an impervious layer that encloses the entire lower part of the house in an unbroken and waterproof sheathing. The damp cellar of a finished house can be made dry by coating the floor and the inside surfaces of the walls with waterproof cement.

The keeping out of dampness must be followed by the exclusion of the dust and odors inseparable from all but the most modern and highly developed of heating plants. When the room is reached by its own stairs and there is no need for a connection with the rest of the cellar, the dividing partition should be unbroken. If this is not the case, the door should not be light and flimsy, but stiff and so proof against warping that its fit will remain snug. An important detail is to equip it with high-grade metal weather strips through which dust cannot make its way.

This also applies to cellar storerooms. Generally speaking, storage space in the cellar is used only for storm sash, insect screens, garden tools, and similar things that will not be harmed by dust, while clothing, trunks and off-duty traveling bags, out-of-season draperies, and so forth are stored in the attic. Cellar storage space becomes available for any use when ceiling and walls are dust-proof and the door is stout, closely fitted, and provided with metal weather strips. As the air must be kept fresh, there should be small grated openings in the outer walls, and for its free circulation a slat floor should be built on battens that will raise it two inches or so above the concrete.

For light and air, the cellar room must have larger windows than are usually used, which may entail the construction of an areaway in front of each; a masonry-lined pit drained by a small dry well. For permanence and freedom from trouble window frames should be of metal, and the glazing of wire glass.

When a cellar room is designed into the house, piping and electrical conduits are concealed in walls and ceilings, where otherwise they will be placed at the convenience of the workmen and may interfere with later finishing. To move them will be expensive, and as a general thing it will be best to accept them and to make them inconspicuous with paint. In the case of heating pipes, the insulating covering should be removed, for they will then serve to heat the room without need for radiator or register.

Before deciding on the flooring it should be ascertained whether the concrete floor is inclined to dampness. A test for this to be made in rainy or damp weather, is to place on the floor a good-sized piece of building paper, oil cloth, or anything else that will lie flat and that is impervious to air. If on raising it after a day or two the floor beneath is dry, any finish can be used: paint, wood, rugs, or cemented linoleum. Should the floor show dampness the best treatment will be a $\frac{1}{2}$ inch or inch layer of waterproof cement. In default of this, a false floor of wood should be built, preferably in sections, that air may circulate under it and absorb moisture as it appears.

In the plans for a useful cellar, plumbing becomes a matter of course, for connections are usually simple and easily made. In designing their new house the parents of three active small boys took advantage of this, and devised a room that for its purpose is a model of usefulness. Having an outside door, the room has become the boys' private entrance; in it are kept their outdoor shoes and wraps, their working clothes, their sleds, ski and skates, their baseball and other play equipment, and their indoor amusements as well. With a shower and wash basin in one corner and indoor clothes on hooks and shelves, 'cleaning up' after play is made so easy that it has become a matter of course and a habit.

In thinking of these modern cellars as additional rooms it must first of all be realized that the day of the old dun-colored cellar equipment has gone. The fittings that are as a rule part of the cellar gave taken on color and beauty of design, in keeping with this new note throughout the rest of the house. Laundry tubs, sinks, the cement of the floors—all may be had in any hue desired while the change that has taken place in the furnace is startling.

The furnaces for these cellars are in green and gold, blue, dull reds, and black, and so finished that a mere dust cloth will keep these colors gay and bright. Not until one sees a cellar that uses one of these decorative furnaces can the improvement they bring be realized.

All about the forecourt Apple trees stand guard and give an air of settled beauty to this less than six months garden at Greenwich, Connecticut, designed by Alderson & Dell for Miss Alice B. Mc Cutcheon

A Garden Only Five Months Old

LILIAN C. ALDERSON

IT IS a new garden. The photographs were taken just five months after planting, when the house had been standing barely two years, yet both have already assumed an air of repose and dignity that we are wont to associate with the passing years. Here a Connecticut farmer planted an Apple orchard many years ago, with no thought of any future aesthetic value and thus he played fairy godfather to a modern Connecticut home.

The garden slopes from east to west, so that it was necessary to raise the forecourt by a low stone wall on the west to meet the grade. This forecourt forms the connecting link between dwelling and garden. It is made up of two outdoor rooms, enclosed by hedges of Hemlock and Barberry.

The bedroom windows and living room overlook the court inside the Hemlock hedge and it is important that this should not be lacking in interest the year round.

During the early spring it was a veritable Botticelli garden of rainbow hues, groups of glistening blue, pink and yellow Hyacinths were followed by lavender and pink Darwin Tulips leading into the golden-brown and maroons of the Breeders. In between the ground was literally covered with bunches of Pansies, Forget-me-nots and English Daisies that lasted so long into June it seemed brutal to pull them out to make room for the Ageratum Blue Perfection and dwarf double French Marigolds, golden and mahogany, that filled the bed with flowers when the photograph was taken in October.

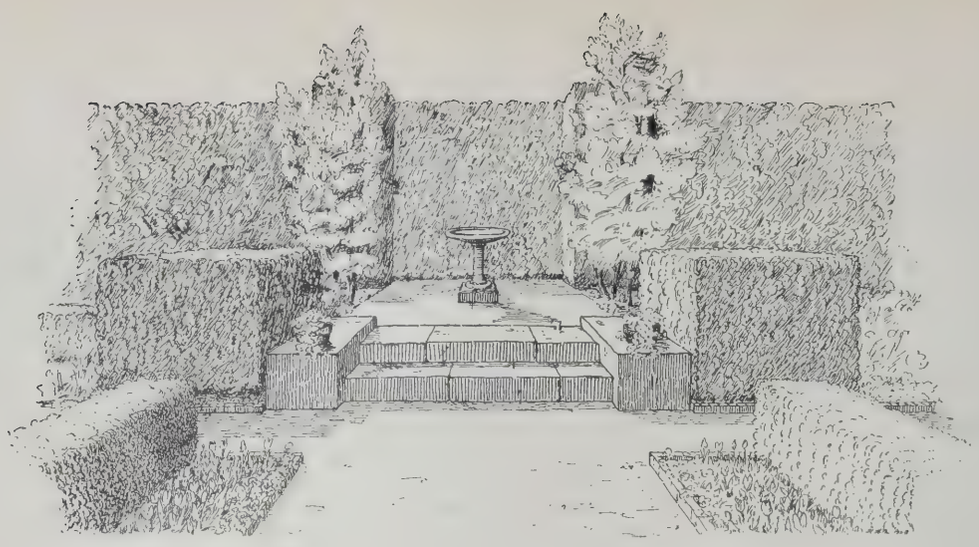
Past the tiny Rose garden a wide grass path leads down through the orchard between flower borders to an evergreen planting beyond. These two borders followed after the forecourt in time of blooming, and emphasis was laid on midseason and autumn coloring, with Hardy Pinks German Iris and Sweet-william, as an opening chord. By the time the photographs were taken the front of the border was completely covered with annuals with only an occasional sheaf of blue-green Iris leaf showing between. Dependable annuals they were, loyal friends of the gardener, such as Heliotrope white balcony Petunia and the dear old pink Verbena.

Throughout the midsummer the center of the border was (*continued on page 652*

When photographed in October the long borders leading through the orchard were still full of bloom—Helenium, Heliotrope, Petunias, Asters, Zinnias, and a number of other things, topping the long procession of blue, white, and yellow flowers that have made the summer gay. The grass path terminates in a planting of young evergreens (right)

In the picture below we are looking from the evergreen planting toward the house—just the reverse view of that shown at left. From here we can see the natural slope of ground from east to west and how interestingly the forecourt has been developed by means of a low stone wall; how attractively it links garden with dwelling

Photographs by Mattie Edwards Hewitt



Terminus to the main axis seen right through from the dining room is this bird bath framed in white Lilac and supported by green hedges

A Little Formal Garden in Rose and Blue

In a restricted area strict formality gives the greatest use of the available space

HAROLD HILL BLOSSOM

Landscape Architect, Boston, Mass.

THE main axis through the gardens has been made continuous with the house axis leading through the living room and dining room, so that the view from the owner's seat in the dining room will be a lovely picture of the garden steps, hedges, and the bird bath against a high hedge at the back.

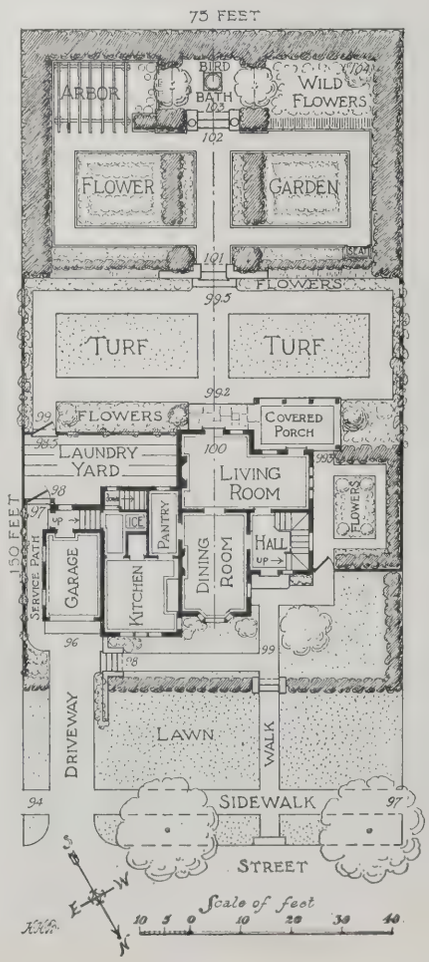
The house and the layout of all the ground in this 75 x 150 ft. plot are designed as one unit on a street running from southeast to northwest which permits placing the house advantageously to the sunlight. The lot is 10 ft. higher at one of the back corners than at the sidewalk at the diagonal center so the development has been made a series of terraces to reduce grading to the minimum. The southwest corner is 4 ft. above the floor level of the house. It fits in as one panel of a thoroughly formal design.

The service and the entrance portions are united by the walk that goes across the front of the house. Within the house the connection between the service portion and the living portion and also the entrance hall is through the dining room.

All the service portion is placed at the northeast corner of the lot, which is also the lowest corner. This helps the architectural design.

The house, as seen from the street, is set up on a little terrace which is marked with a hedge and two steps in the walk. This hedge could be Ibota Privet, closely clipped. A flowering Crabapple could be near the front door.

Opportunity is given to go around to the gardens without going through the house. On the other side of the house is the service path alongside the garage.



This would be separated from the adjoining property by a board fence of attractive design which would be covered, more or less, by vines not of a thorny character. From the service path one can pass through the laundry yard into the gardens. It would be best if this laundry yard were surfaced with clean gravel or else paved with smooth flat stones laid on the soil. As much as possible of the lot is saved in one rectangular piece for the garden. This part is fully open to the sun, it being assumed that there are no trees on the property.

Since the ground is sloping five feet it is handled in three terraces; the first is made two steps lower than the floor of the house so that there can be one step of nearly five inches from the house on to the covered porch, and one similar step down to the level of the ground. This first level, next to the house, has two large turf panels surrounded by a border of flowers on four sides. The walk should be of gravel, not loose, but made firm under foot. The walks on the east and west sides and at the south side are close to the edge of this area, which gives as much space as possible for the turf panels. This will give a sense of space.

The second level is distinctly the flower garden, framed in on three sides with a high hedge which would be evergreen if there were enough money, but for the practical purpose of this problem is laid out as California Privet hedge. This should be kept clipped to vertical surfaces

and to sharp right angles with a flat top in order to give snap to the design. At the farthest point on the axis is a bird bath enclosed, to a large extent, with hedge at the back and hedging at the front of this terrace with two white Lilacs to grow tall and, ultimately, to arch over the bird bath.

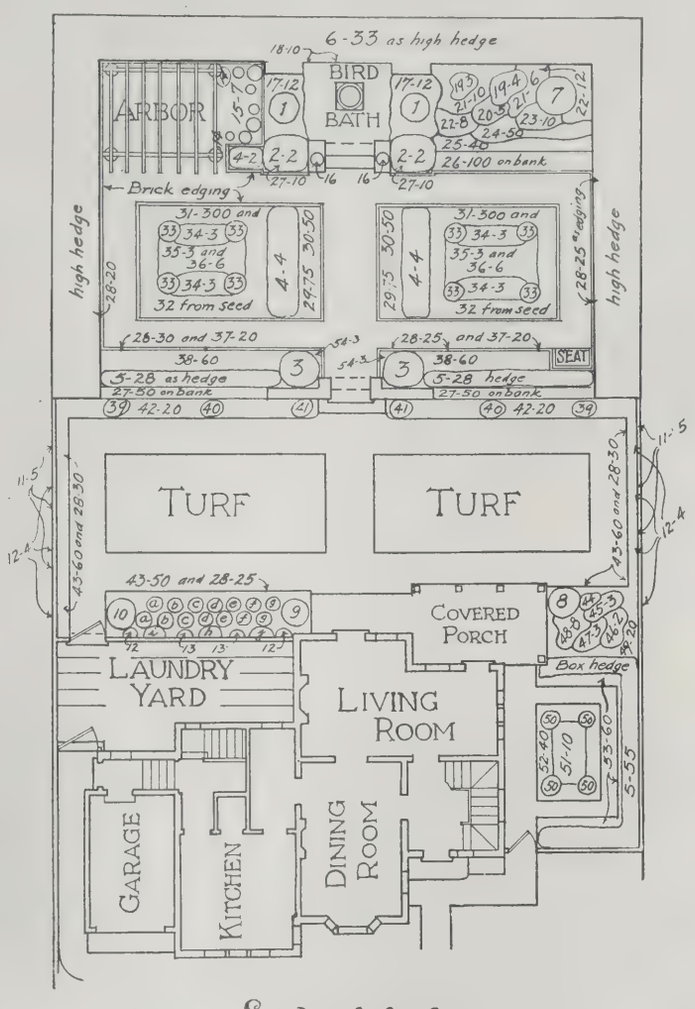
The hedge at the top of the eighteen-inch slope or bank that supports the second terrace would be the Dwarf Box, started at ten inches high and so produces a fairly good effect at the beginning. When it gets two feet high and two feet wide it would be a sufficient enclosure for this side of the terrace.

The walk in this upper level, or flower garden, is edged with brick on end. The walk would be either in brick laid in basket fashion, if there were money enough, or gravel laid firm and smooth.

A small area of land, such as this, when divided up into different parts and different levels, gives far more of interest and charm and opportunity for delightful gardening than if the same area is treated all in one unit and all at the same level.

The garden scheme is kept closely to shades of rose, or pink, and blue. There is, however, a slight touch of white at points where it would be particularly effective as, for instance, the white Vinca at the end of the axis at the base of the Privet hedge, and some white Clematis henryi on the laundry yard fence above the Rose bed. Also there is just a touch of white to the northeast of the covered porch with Perry's White Achillea; and again there is a touch of white in the Campanula carpatica alba used in the little garden northwest of the living room; and again there are two white Peonies in the center of the beds on the south side of the turf panel level. These touches of white are necessary to make the blue and mauve shades thoroughly effective. Materials for the entire planting scheme as given below can be purchased for about $450. The cost of labor for planting and other sundry expenses would be extra of course.

This design can be used only if the orientation is the same as here shown. The vital fact of sunlight is so often forgotten. You cannot have success with sun-loving perennials when they are planted close up against a high hedge that shades them nearly all day long.



Scale of feet

10 5 0 10 20 30 40

The dwelling house and its attractive garden are designed as one unit to take the utmost advantage of the vista of the main axis through the rooms and grounds

A change of levels, emphasized by a step up or down should be seized upon and retained in developing the garden about any house. An even flatness is monotonous

PLANTING LIST

Key number on Plan	*Name*	*Quantity to Order*
1.	Syringa President Grevy Double blush Lilac	2
2.	Thuja hoveyi Hovey Arborvitae	4
3.	Thuja globosa American Globe Arborvitae	2
4.	Buxus sempervirens Common Box	8
5.	Buxus suffruticosa Truedwarf Box	111
6.	Ligustrum ovalifolium California Privet	33
7.	Azalea vaseyi Pinkshell Azalea	1
8.	Hibiscus syriacus coelestris Single Blue Rose of Sharon	1
9.	Caryopteris incana Common Bluebeard	1
10.	Buddleia superba Juno Butterflybush	1
11.	Lonicera halliana Hall Japanese Honeysuckle	10
12.	Clematis Ramona Light blue hybrid Clematis	10
13.	Clematis henryi White hybrid Clematis	2
14.	Wisteria sinensis Chinese Wisteria	2
15.	PLANTS IN POTS (including Fuchsia, Begonia, Hibiscus, Plumbago capensis, etc.	7
16.	Lobelia gracilis, in pots	2
17.	FERNS UNDER LILACS: Polystichum acrostichoides	8
	Dryopteris filixmas	8
	Osmunda claytoniana	8
18.	Vinca minor alba	10
19.	Filipendula purpurea	7
20.	Lilium speciosum album	5
21.	Digitalis gloxiniaeflora rosea	16
22.	Cimicifuga racemosa, with Mertensia virginica	10 10
23.	Gentiana andrewsi	10
24.	Phlox divaricata, with Scilla campanulata,	25 25
25.	Iris verna, with Dianthus plumarius	20 20
26.	Ceratostigma plumbaginoides	100
27.	Vinca minor	120
28.	Lobelia Azure Blue as edging	185
29.	Viola Jersey Gem	150
30.	Tulip Clara Butt, and Tulip La Tristesse	50 50
31.	Tulip Madame Krelage	600
32.	Eschscholtzia Rosy Queen	2 pkts
33.	Iris pallida dalmatica	8
34.	Lupinus polyphyllus, and Aster St. Egwin	4 8
35.	Larkspur	6
36.	Madonna Lily	12
37.	Iris cristata	40
38.	Tulip Euterpe, followed by Aquilegia caerulea Verbena, pink	100 10 8
39.	Peony Mme. Emile Galle	2
40.	Peony Avalanche	2
41.	Peony Therese	2
42.	Peachbell and Chinese Larkspur	20 20
43.	Iris pumila cyanea	120
44.	Achillea Perry's White	1
45.	Iris Pauline	3
46.	Aster Feltham Blue	2
47.	Wilson's Aconite	3
48.	Astilbe arendsi Ceres, and Phlox Eugene Danzanvilliers	4 4
49.	Forget-me-not	20
50.	Heliotrope (Standards)	4
51.	Phlox Le Mahdi and Phlox Antonin Mercie	5 5
52.	Jacob's Ladder and Balloon flower	20 20
53.	Carpathian harebell and its white variety	30 30
54.	Dianthus Gregory	6

ROSES: *a*, Frau Karl Druschki, 2. *b*, Antoine Rivoire, 2. *c*, Columbia, 2. *d*, Mme. Jules Grolez, 2. *e*, Lady Ashtown, 2. *f*, Rose Marie, 2. *g*, Mme. Jules Bouche, 2. *h*, Climbing Caroline Testout, 1. *i*, Alida Lovett, 1. *j*, Dr. W. van Fleet, 1.

'Summer's Green All Girded Up in Sheaves'

Good coverings that may be misused—and some new uses for labels

ETHEL A. S. PECKHAM

WE BECOME very energetic in the autumn and, if we know little about it, we order some landscape gardener to send his men to put 'long stuff' all over the tops of our plants and to decorate our lawns with 'short stuff,' to burlap our evergreens and sheath our poor Rose bushes in wisps of straw, thus making the 'garden' into a grotesque thing indeed and not to be envied by those having 'yards' all laid out in serried bricks and concrete. Is a manure-strewn lawn (or what should be a lawn, but is generally an aggregation of weeds and bare spots) more beautiful than a concrete walk spread with ashes in prevention of possible damage suits by visiting tradesmen and such-like?

A properly planted garden will have much attraction to the winter visitor: Both broad- and narrow-leaved evergreens, hardy shrubs, gay-stemmed shrubs showing red or yellow color, others decked with berries; some trees, of course, small and large, to interest by their form of branch and twig; again, other shrubs of stubbly, prickly habit; long whips of climbing Roses, perhaps still bearing reddened hips of brilliant hue; brown stems and seed-pods of Beardless Irises silhouetted before bronze hardy Azaleas; English Ivies and Pachysandra creeping on the ground, Honeysuckle and Privet, still green-bronzed leaved; light brown stretches of salt-hay covering fleshy plants in the borders and dark streaks where the well-rotted manure hides your drifts of bulbous plants!

Some careful interlacing of covering matter may possibly be the result, but it need not be unsightly or more expensive than the usual stupid crowding on of a wet blanket of leaves that does more harm than good. The judicious use of material is an essential in every good garden whether it be plants that still grow, or only those that are dried and helping to conserve their more lucky relations. Branches of evergreens are often suggested as covering for plants and very good they are, but who is likely to have such things handy? By all means put the ex-Christmas tree to work after the First of the Year, if you still need it, and the sheet-moss that has been used below it will come in handy also. Branches of deciduous trees are useful, they hold down hay and thin spreads of leaves, and they will hold *up* hay over bumpy plants, if cleverly disposed.

Leaves are a dangerous covering material for the novice to attempt. When blown by nature among plants they are very successful and if one is willing to go about in late autumn improving nature's handiwork by removing the leaves where they lie too thickly over one's plants and tucking them between in other places where spots are bare, much good can be done.

Leaves, especially if they are of a kind other than Beech or Oak, are a poor cover for bulbs. They pack into a soggy mass and the sprouting Tulips, Daffodils, or Scillas are curled about into the most miserable of cripples under their weight. A good system to use with Maple leaves is to collect them during the fall and pack into a pile kept in place by a low fence of chicken wire and where they are exposed to rain. Turn them once, and if it is a dry autumn and you can spare the water, give them a good soaking with the hose. Between Thanksgiving and Christmas, when the ground is well frozen and you desire to cover your garden, this leaf-pile will be partially rotted. You can use it

Evergreens all bundled up in burlap for winter do not lend attractiveness to any home. How much more gracious nature's own winter garb as shown by the views in the Country Life Press gardens on the preceding page

very nicely to spread between your Phloxes and Delphiniums or over your Lily-of-the-Valley, etc. It is wonderful how many corners you will find needing just such an application.

Decorating Box bushes with burlap may be a benefit in some localities, but I notice that the nurseries which handle these large and expensive plants do not make the effort to cover and certainly the effect is frightful when there is no snow-cap to lend grace to the dreariness.

If you have Lavender bushes it really is necessary to give some covering, and I resort to burlap held down by bricks and am glad that the Lavender bushes are few and concentrated in one spot. Burlap is really preferable to old striped awnings and discarded carpets; nothing will make *them* blend with the landscape. Perhaps salt-hay would do as well for Lavender and be more sightly but there is always danger of its taking leave on the wings of a breeze.

My Bearded Irises having been visited by leaf-spot disease, I remove all the affected foliage in September and October. If this is done one must throw on a thin sprinkling of hay after the weather becomes really cold and the ground frozen.

Novices are very apt to think that a covering of salt hay on plants should resemble the sort of bed we like to spread ourselves upon, but a bale of hay should cover a very considerable garden. One ought to be able just to discern the plants through the thin criss-cross of the hay, and, put on thus, preferably before a snow or a mild spell with rain, it will stay in place. Lumps mounting up like billows are only an invitation to remove to another location. All this seems to necessitate a lot of work. Work is not out of place in any garden!

The necessity for a covering of some sort is a distinct reason against using large (or even small) wooden labels for permanency or for over winter. The snap of a broken label is sure to resound from under your feet and the ground being frozen, you cannot stick back the top again. So there you are—unlabeled plants—a pest of the worst variety! Two types of labels are satisfactory for fairly permanent use, the galvanized iron or zinc oval that can be pushed well down into the ground and which can be marked with architect's waterproof ink, and given a coat of spar-varnish; or the long, heavy galvanized wire bent into a ring at the top and from which dangles a stamped or punched zinc tag. Labels at best are ugly unless used among plants with long foliage which tends to hide them. But for helping to keep hay in place during winter the wires are quite convenient! The best labeling scheme however is a garden map carefully kept in a drawer in the house. A garden hung and stuck too thickly with labels is a good one for study but an aesthetic horror!

The Persisting Colonial

Two outstanding types that still satisfy

ROSSITER SNYDER

THERE are two characteristic types of early Colonial frame house designs, found north of the Maryland line, which have satisfied for more than two centuries. They have stood the test of time and the trend is back toward them.

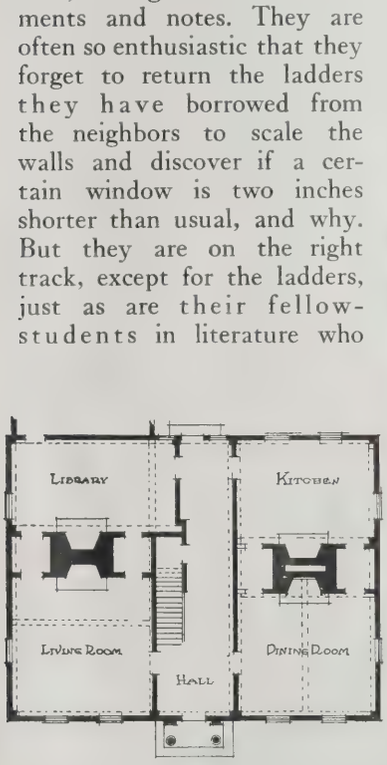
Almost any bright Sunday afternoon one may find architectural students prowling over these old houses in New England, taking the most minute measurements and notes. They are often so enthusiastic that they forget to return the ladders they have borrowed from the neighbors to scale the walls and discover if a certain window is two inches shorter than usual, and why. But they are on the right track, except for the ladders, just as are their fellow-students in literature who believe that Shakespeare was a fair playwright, because he has endured so long.

The two great types are readily described. The first, and simplest is shaped like an old-fashioned kitchen salt-box. The front roof slope is quite normal in dimensions, but the rear roof sweeps back a great distance and stops at the height of the first story ceiling. It has one huge chimney in its center, hence a very small hall, or 'entry' into which the front door opens. The stairs are spiral or platform type, cramped in front of the chimney.

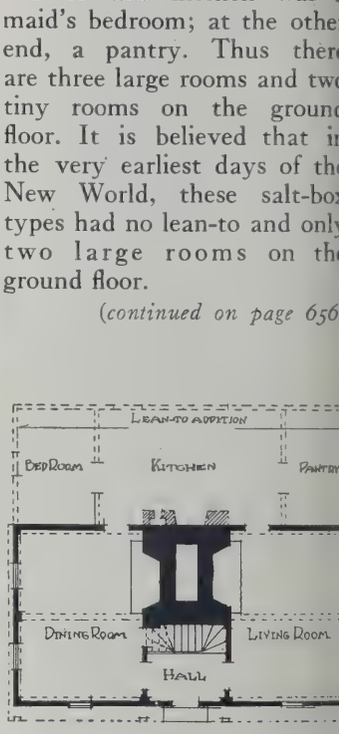
On the warmer or sunnier side of the entry is the living room, once called the 'hall' or the 'keeping room.' On the other side of the entry was the 'parlor,' now used as a dining room. Behind these rooms was the kitchen in the 'lean-to.' At one end of this kitchen was a maid's bedroom; at the other end, a pantry. Thus there are three large rooms and two tiny rooms on the ground floor. It is believed that in the very earliest days of the New World, these salt-box types had no lean-to and only two large rooms on the ground floor.

(*continued on page 656*)

Built about 1720, this old Hall Homestead, Nut Plains, Conn., is a typical example of the early 'salt-box' Colonial with central chimney (plan below right)



First floor plan of the two-chimney, eight-room, center-hall house which succeeded the 'salt-box' type and continues to be popular



Plan of one-chimney, 'salt-box' design pictured above and described in accompanying text—one of two outstanding Northern Colonial types

Dating back to 1740, this house with double overhang is a halfway step between the two types shown in plans above

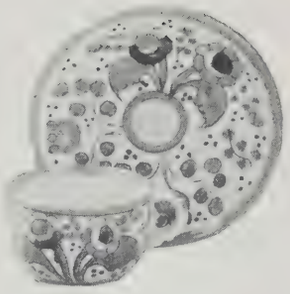
In Saybrook, Conn., stands this somewhat modernized version of the familiar two-chimney Colonial (left)

An ancient Connecticut house practically unaltered since originally built (right)

Imports from Italy are particularly lovely and varied—flower bowl with matching candlesticks in raised, colored floral design on ivory background

English earthenware of traditional pattern continues to appeal (Ovington's)

Effective Spanish ware, yellow, green, and blue on white ground (Lord & Taylor)



Colorful Table Services

Drawn from the whole world's potteries

HANNA TACHAU

Something different in candelabra for table decoration, of ivory Italian pottery with raised flowers in rose, blue, yellow, orchid and green

NEVER was pottery and porcelain for the table so joyous and daring in design and color as now, for we have the world's output to choose from.

A dining room should always be bright and charming in color—a place where the family may meet in gaiety of spirit. Light tones, flowers, blithe wallpapers, sunshine when possible—all essentially aid in bringing about a happy frame of mind and, logically, a good digestion. When a dining room is so situated that its light is curtailed, overshadowed, perhaps, by an adjacent building or by its location in a basement, it can be brightened by the skilful use of mirrors that reflect light, and by gaily painted furniture, and by the flash of color in walls, curtains, china, and pottery.

Sometimes a dinner service, though of the least expensive kind, may prove the dominating note in a dining room. Indeed, I know of several delightful dining rooms whose decorative schemes evolved quite spontaneously from their simple, colorful, earthenware dishes.

In one of these rooms the woodwork was painted a deep cream, the walls the same tone, broken into panels by narrow mouldings of wood. Inserted in the panels, was a gay wallpaper copied from an old handblocked paper, whose bird and flower motifs and coloring were much the same as that which appeared upon the earthenware used for the table service. The simple pine chairs and table were painted a soft ivory tone with a blue line for decoration, and the top of the table was further embellished with a conventional border

This bold black and white design from Spain is very suitable for the country home

adapted from the design of the china—a rather heavy, creamy English ware, with a rim of blue and yellow, and decorations showing gay-plumaged birds and softly glowing flowers and foliage. The woven square rug was of a solid color—a soft, rich, insinuating blue that brought to mind a spray of chicory that turns its face to the sun. The curtains were very simple, of cream net with overhangings of lovely blue damask that could be cosily drawn at night to cover the group of windows. A built-in cupboard and a pair of consoles, painted to match the other pieces, completed the furniture in the room. All this emanated from, and repeated, the color and design of the table pottery.

Each country, with its contributions of inexpensive dishes in native designs, portrayed so naïvely and with such simple directness, presents a hundred suggestive hints for decorative schemes that are distinctive and interesting. Imports from Italy are particularly lovely and varied, ranging from rather crude, quite inexpensive wares to the more costly, finer porcelains. Some of them are reproductions of old designs—characteristic landscapes or charming flower and figure motifs; others are the creations of modern potters with the modernist's delight in striking color and disregard for conventional drawing. All of them, however, are interesting in design and tonal quality. With an eye to commercial success, Italy is making a great effort to keep her prices low and we can find an Italian breakfast service of twenty-two pieces that costs only $15.00. This includes egg cup, cereal bowl, hot toast dish with cover, coffee, tea, and chocolate pots, beside the usual cup and saucer, cream and sugar, plates, etc. The ground is a rich ivory tone with sprays of gay-colored

flowers strewn over its surface, with a yellow line defining the edges.

Tea and breakfast services can be had from $10.00 up—these so attractive that they may be used for luncheon. The Cantigalli, a finer ware than pottery, is especially delightful, one pattern showing a white ground with a border in color and design taken from the Chinese.

Spanish pottery is somewhat cruder than the Italian, but it is very effective for country houses, or when it is used in small quantities, as for instance, a tea or salad set, or plates that do duty for one specific course.

The Czechoslovakia ware is often too striking for the ordinary home environment, but there are some patterns that are low in tone that still retain their characteristic designs. This is exemplified in the cup and toast service that is used for breakfast (illustrated above) that has a biscuit ground with flower decorations in dull blues and rose and green. The thin lustre ware from Czechoslovakia from which the dainty tea sets are made in all the pastel tints are unbelievably cheap, and they are very delightful, too.

It is quite the accepted thing now, not to confine oneself to a dinner service of one pattern, but to vary the courses by serving them upon plates and dishes of different designs and colors, so that we may have service plates of one type and salad and dessert plates of still other designs. This may be the outcome of our craze for introducing color on the dinner table, and it does produce a pleasantly informal effect. However, many people still cling to the open stock patterns since this means that a broken piece can always be replaced without difficulty.

The present aim is to get interesting color effects, and this we can attain by using the so-called peasant pottery and earthenware (which is so inexpensive) quite as effectively as by utilizing the exquisite china and porcelains, which, as works of art produced by highly trained craftsmen, are naturally costly. But we must not try to minimize the beauty and value of these fine wares that took years of experimentation to perfect, and whose exquisite forms and satiny glazes delight the eye and touch. It is, however, a great advance in the development of the decorative arts to find that inexpensive things are being made lovely and interesting through color and design. It is not only a credit to the producers, but is a tribute to the buyer as well, whose artistic growth demands more beauty in the ordinary things of utility. In former years, 'everyday china,' as it was called, or the pottery that the average home-maker could afford to buy for daily use, was neither pleasing nor colorful. No attempt was made to attain any sort of decorative appeal.

Cup and toast service (above right) from Czechoslovakia in subdued colors—blue, rose, green or biscuit ground—that fit almost anywhere

Have you seen the Quimper ware, with its simple French peasant decoration—a quaint figure in native dress, surrounded by native flowers? The ground is deep biscuit color, with simple line borders, done in primitive colors to accentuate its amusing shapes and forms. It is quite enchanting, of its kind, and a cup and saucer only costs $1.25—a large plate $1.50, and a most useful little bowl with flat, stick-out handles that can be used for soup or cereals or baked apples or custard, can be yours for 65 cents. These little bowls make one chuckle to look at them. There are other French wares from Brittany and Normandy that are perhaps a little less crude in body and design.

Delightfully naïve is the Quimper ware with French peasant decoration (plate above), and among attractive domestic potteries ranks the Hagar (bowl above)

But I must not neglect mentioning some inexpensive wares made here in our own country. There is the Hagar pottery, for instance, that comes in solid colors—black, green, blue, yellow and jade green, which appears only in decorative pieces—bowls of all sizes, candlesticks, jugs, creamer and sugar bowl, vases and other small pieces for the table. The black is particularly effective, for it seems to have imprisoned all the colors there be, holding them in its depths, yet on occasion taking on the hues of surrounding objects. There are a number of other wares that are made here (salad and tea sets of seven or eight pieces that range in price from $5 to $20 a set) but they are not, many of them, as original in design, nor have they the distinction of the imports at the same price.

Flower bowls and candlesticks are essential for making the dining room table beautiful, and we scarcely know which one to choose. However, that is a matter of individual taste. If one cannot often afford the luxury of fresh flowers, all sorts of ways have been devised to substitute other decorations for this most lovely form of embellishment.

Flower holders disguised in the alluring forms of water nymphs, gay, little Japanese maidens, and exotic flowers fashioned from pottery and glass, rise from the center of bowls which are sufficiently decorative in themselves, but a single spray of flowers or a bunch of green leaves will add to their beauty and give the needed touch of color to the center of the table.

There are many different kinds of water plants that can be housed artistically in pottery bowls and dishes, and they last throughout the winter season. Roots of the redwood send out sprouts of green that look like miniature forests, and there are various kinds of cactus that are quaintly ornamental. Little tight nosegays and all the old-fashioned flowers are exquisitely fashioned from the finest china and porcelains and they, of course, ever retain their color and charm. They are expensive, but perhaps in the end their costliness is justified.

Charming in design and color is this inexpensive breakfast service from Italy

Dahlia imperialis, a tall growing wild species with lavender flowers

The Mystery of the Dahlia

BASIL E. GILBERT

Rhode Island Agricultural Expt. Station

Water-cane flower (Acocotl), original Dahlia as found in Mexico

D. maxoni, a tender species direct from the fields of Guatemala

D. variabilis from Terra Fria region, perhaps one source of our garden plant

Water-pipe flower (Acocoxochitl), another early type found in Mexico

THE Dahlia is a mystery flower. All attempts to unravel its past have met with difficulties which bid fair to baffle even the ingenuity of a Sherlock Holmes.

Three-quarters of a century after Columbus had made his great discovery, Francisco Hernandez, the protomedico of Philip II of Spain, arrived on the shores of Yucatan with a warrant from his royal master which bade him study the resources of New Spain. One can picture the disdain and lack of interest which followed that portion of Hernandez's description which had to do with the wealth of beauty he had found in the strange flowers and plants of the new land. Apparently, however, he was not easily discouraged for he has left for our information a volume entitled 'Plants and Animals of New Spain.' A wealth of information concerning the plant types which grew in Mexico in the sixteenth century is to be found in this book, so carefully translated by Dr. W. E. Safford, formerly of the Bureau of Plant Industry.

Among the drawings in Hernandez's book there are three which bear great resemblances to the modern Dahlia forms. The Aztec names of these plants when translated, mean 'water-cane,' 'hollow-stem flower,' and 'water-pipe flower.' Two of these drawings resemble our present-day Duplex Dahlias while the third has flowers of the Peony type. This latter is described as having flower heads with yellow disk and purple ray florets and then we are told that many more forms of the 'water-pipe flower' grew in New Spain. The colors, Hernandez says, were white, yellow, purple, or red, some tinged with purple and yellow tinged with red. Finally he assures us that in some cases there were double or multiple whorls of ray flowers, either forming circles or clustered in compact bunches.

We do not know where Hernandez discovered the plants from which he made his drawings. Here the mystery of the Dahlia really begins. But it becomes of greatest interest when the present-day wild Dahlia forms are examined. No wild Dahlias are known which resemble the drawings or descriptions in the 'Plants and Animals of New Spain.'

Of the two present-day types of Tree Dahlias the form which grows wild in Yucatan, the southeastern state of Mexico, is by far the showiest of all wild Dahlias. Right worthily has it been named Dahlia imperialis for it is truly regal. Growing to a height of ten to fifteen feet it produces in November terminal nodding clusters of white or pale pinkish-mauve flowers with lilac markings, borne on arching stems so that they look down at us from overhead. The flowers are four to six inches across and before they are fully open resemble Easter Lilies.

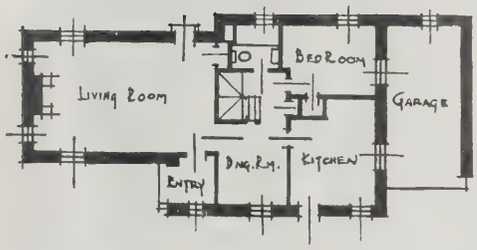
The stem is slender and woody with the large compound leaves opposite one another. Unfortunately it is a tropical plant and northern latitudes do not allow time enough for it to flower before frost arrives to cut short its life. It can easily be grown in a large tub and when the danger of spring frosts is over, sunk in the garden, there to spend the summer months in growing foliage. Then early in the autumn the tub and tree must be moved to the greenhouse where it will flower and gladden the hearts of flower lovers with its beautiful clusters of bloom.

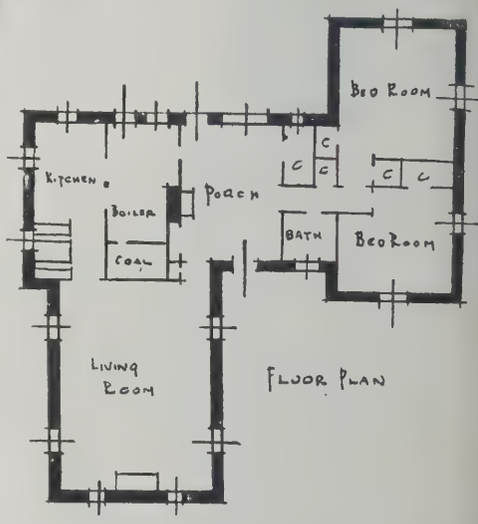
Dahlia maxoni, another Tree Dahlia, was discovered in 1905 by W. R. Maxon growing in the mountains of Guatemala. It is more sturdy in growth than its imperial cousin. It can be grown from seed to flower in one season if taken within doors before the first autumnal frost. It will bloom during the short days of November to January. It has single flowers which appear in groups of three as is the case with the modern Dahlia forms. The flowers resemble closely some of the modern single horticultural varieties.

The flat and widely spreading flowers are lavender-pinkish or lilac in color and are borne proudly erect on long stems. The ray florets are large with the outer ends rounded or abruptly pointed.

The common wild Dahlia of the Mexican highlands is a bushlike plant and averages three feet in height. The leaves are dark green and very similar to those of the cultivated types. The flowers are single and somewhat pendulous on long stems. The eight ray florets vary in color from sulphur-yellow to orange-brown and deep crimson. The blooms are produced in great profusion and are very desirable as cut flowers or as decorative garden flowers. It is possible to grow the plants from seed to flower in one season. By starting the plants from seed in a hotbed or within doors and transplanting when danger of frost is over it is possible to have them in bloom (*continued on page 672*)

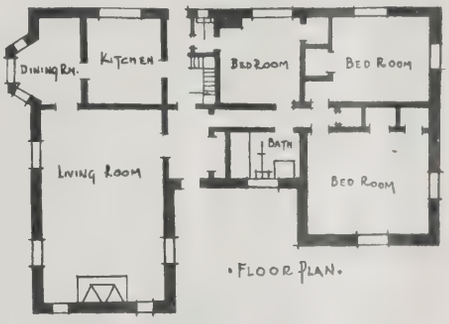
When it came to the actual building of this house the owner pitched in and had the fun of helping as well as watching it grow. The center section is taken up with a secondary living room or lounge, and extra storage closets simplify housework. At Princeton, N. J.; the owner is Walter S. Mustor, Esq.





Perched on a cliff above the road, this picturesque design was developed to fit a 75 x 116 ft. corner lot. Part of the house rests on a sloping rock ledge with boiler room placed at deepest point. The walls are of native stone, tawny gray purple; a variegated slate roof and oak trim, stained tobacco brown, keeps the whole in sturdy color combination

In all four houses, compactness, straightforward strength of design, the separation of living from sleeping quarters, have been achieved without sacrificing exterior charm. Practically all outside painting and upkeep have been eliminated by stone sills and staining oak trim with a preservative. Home of Mr. Norman R. Lee, Plainfield, N. J.

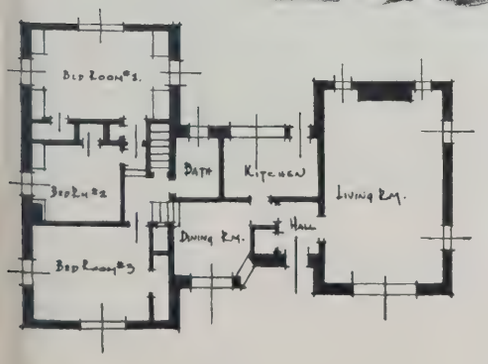


FOUR SMALL HOUSES OF STONE

A simplified method which makes stone possible for the man of medium purse

DESIGNED BY WARREN SHEPARD MATTHEWS

Photographs by Palmer Shannon



An interesting solution of a one-floor house on a 50 x 140 ft. lot with a large rock outcrop which suggested building on three levels, thereby saving money and effectively massing the dwelling on the land. Home for Miss Rozine Ruth Simmons at Bryn Mawr Park, N. Y.; Plan below left

Quality Grapes for Fruit and Vine

Discussion of the newer introductions and a comparison with the older varieties

D. F. JONES

Connecticut Agricultural Experiment Station

WITH the appearance of an unusual number of new varieties in the past few years, the list of quality Grapes for the home garden, where good fruit and attractive vines are wanted, needs revision. There has been no lack of fine fruit in the past but many of the varieties good in this respect have been poor growers, unattractive in appearance of fruit or lacking in adaptability to many Grape-growing sections.

In Grapes quality seems to be more generally associated with green fruit than with other colors. The older sorts, of those recommended for the home garden, such as Winchell, Colerain, Diamond and Dutchess, are weak in vine or lacking in hardiness and productiveness. Three new green-fruited varieties put out by the New York Experiment Station at Geneva are equal to the best in quality of fruit, perhaps even better, and are more vigorous in vine. While it is too soon to know how they will succeed in a wide range of soils and seasons, they have been sufficiently tested to be worthy of a trial by Grape growers who are looking for something better than what they are now raising.

As grown in Connecticut along the Sound, Ontario is an early green Grape of good vine growth, productive, and is larger in berry than either Winchell or Colerain and fully as good in quality, if not better. Its principal fault is the shelling of the berries from the bunch when overripe. Ripley is another new green Grape that comes in the season of Diamond and Niagara, varieties most generally grown. With us, around New Haven, Ripley is better than either of these varieties in quality of fruit, and is a more vigorous grower. The fruit is rather unattractive in appearance, and is very susceptible to black rot.

Brocton sets a new standard of quality. This is another Geneva seedling with green fruit. Here in southern New England it is a weak grower, but is well worth care as in the opinion of many who have tasted the fruit it is not surpassed by any other variety.

Among the blacks, two outstanding new varieties have appeared. Wallis Giant, a seedling sent out for trial by the Stark Brothers Nurseries has the largest berry of any variety of American Grape that I am familiar with. The bunches are medium in size and well formed, and the mature fruit is most attractive looking,

The Grape vine is to be planted on arbors, etc. for its shade and ornamental effects, to say nothing of its welcome luscious fruit. But get up-to-date kinds

much like hothouse grapes. It is the Concord type and ripens about the same time as that variety. The berries are juicy and of good flavor although not as rich as Sheridan or Herbert.

Of all the new varieties introduced within recent years, Sheridan is outstanding as the most promising. Vigorous in vine, producing a large crop of uniform compact bunches, it rivals Concord as a market fruit yet at the same time its rich flavor and sweetness make it a variety to be included in every garden where quality Grapes are grown. It is a little later than Concord, which may limit its usefulness in more northern regions, but has ripened well in two backward seasons in southern Connecticut, and reports from other sections indicate a wide adaptability for this fine new variety. It is also a seedling from the Geneva Station developed by U. P. Hedrick and his associates from a cross of Herbert and Worden.

The crop four years after fall planting. This is Sheridan, one of the promising newer introductions

Herbert itself is a variety that should be included in the home fruit planting. Its vigorous growth makes it a good variety for trellis or arbor and the fruit when well matured is rich in flavor. Hedrick in the *Grapes of New York* says: 'In all that constitutes a fine table grape Herbert is about as near perfection as we have reached in the evolution of American grapes.' He then adds a word of caution that, as with most black Grapes, the fruit of this variety colors long before it is ripe and when picked too early there is an astringency that wholly disappears when the fruit is fully ripe. Herbert keeps well long after it is mature, and this is a valuable characteristic in a garden Grape.

There are many good varieties with red fruit so that such new sorts as Caco and Dunkirk will have considerable difficulty in displacing such old favorites as Brighton, Delaware, and Catawba. Caco is an early Grape, grows well and is productive. The bunches are rather loose and the berries ripen unevenly but when fully ripe are very sweet, tender, and delicious. It is well worth trying, and in its season is better in quality than many varieties that are now widely grown. It is a seedling of Catawba and Concord and is already listed by a number of nurserymen which is proof of its value. Dunkirk, a mid-season red, is also from the Geneva Station. It has not fruited as yet here in Connecticut. The originators describe it as good as Delaware in quality and at the same time larger and better in berry and bunch.

Of the older red varieties Brighton and Delaware are standard and well known to all Grape growers. The principal faults of Brighton are its uneven ripening and rapid deterioration after maturity. Delaware needs no description. Last year it did not ripen in this section. In many respects Moyer is better than Delaware. Being earlier and hardier it can be grown where it is impossible to ripen Delaware. The berries are larger, but the bunches are small and not well formed.

One of the first of the native grapes to come into cultivation, Catawba is still one of the leading red Grapes. Unfortunately Catawba will not ripen in most seasons in Connecticut although some people pick it when it is red and call it ripe long before it develops its real flavor and sweetness. Where Catawba cannot be grown Vergennes is the next best of the late red varieties. It is a late-keeping Grape, being in eating condition up to January and sometimes February. The fruit is good in quality although not the best. It is productive, regular in bearing, and has a large vine growth that makes it valuable as a summer screen. A new variety having all these good characteristics with the fruit quality of Sheridan or Brocton would be a distinct achievement.

Keuka and Urbana are two new late red varieties that are said to come nearer to being a European Grape on an American vine than anything yet produced. They are not fully hardy, and here in Connecticut make a very weak growth and have not fruited as yet. Urbana is as late as Catawba and keeps in common storage up to March. Keuka ripens in a shorter season and is the one to be tried first in the more northern regions. Layering the vines over winter may be necessary in order to grow these varieties successfully in some places.

The newer varieties described above are brought together in the accompanying list for comparison with the standard varieties in color and time of ripening. Where only a few vines can be grown Sheridan, Herbert, Brocton, Diamond, Brighton, and Delaware are two varieties of each color, black, green, and red, that should be given first place. Where abundant vine growth is needed for a trellis or arbor, Herbert, Ripley, and Vergennes are probably the best adapted for this purpose.

Grapes can be planted in the fall, any time after the leaves are off until the ground begins to freeze, except in the prairie states where spring planting is usually safer. One-year-old vines are usually preferred and should be handled the same as fruit trees. They should not be set closer than six feet apart and eight feet between rows.

Vines are vigorous feeders and other plants growing near by are often at a disadvantage and should be watered liberally in a dry season. Varieties will respond differently on various soils, and for that reason many varieties should be tried—unless your neighbors have already done this for you. They need an abundance of organic matter for their best growth and respond readily to a liberal use of stable manure or compost. This should be well worked into the soil between the plants but should not be placed in the holes where the plants are set. Where commercial fertilizers are used, the 5–8–7 formula is usually recommended for Grapes. Fertilization that will grow good Potatoes will be suitable for Grapes. When properly grown, the vines should bear some fruit the third year after planting and will sometimes produce a few bunches the second year.

GRAPE VARIETIES FOR THE GARDEN

	Promising newer varieties	*Best of older varieties*
	GREEN	
Early	Ontario	Winchell
		Colerain
Mid-season	Ripley	Diamond
		Niagara
Late	Brocton	Dutchess
	BLACK	
Early	Eclipse	Worden
Mid-season	Wallis	Herbert
		Concord
Late	Sheridan	Isabella
	RED	
Early	Caco	Brighton
Mid-season	Dunkirk	Delaware
		Moyer
Late	Keuka	Vergennes
	Urbana	Catawba

Photograph by George H. Van Anda

IN A CONNECTICUT HOME

A stairway, like a garden path, always has a certain fascination, leading as it does to parts unknown. This curving ascent, treated angularly, is a somewhat unusual and distinctly interesting solution of a familiar problem. Other views of this house designed by Henry W. Rowe may be found on pages 630, 631

You Can Mend Your Broken Furniture

Methods of repair which the veriest amateur may practice at home

PIERRE DUTEL and EMSLIE & McWILLIAMS

IN EVEN the best regulated household, the furniture will occasionally become broken and when this occurs, whether the piece be of modern construction or an antique, there is nothing so distressing as to find it poorly mended, or repaired in a haphazard fashion. Fortunately, it is frequently possible, as well as decidedly interesting, to do this repairing at one's own workbench. One learns so much about furniture and the niceties of cabinet work when trying to restore a broken chair leg or arm that the repair-job ceases to be work and one experiences many of the thrills and delights of the original craftsman who saw his tools transfrom mere pieces of wood into this prized article.

The broken parts should be scraped and cleaned and then carefully fitted. They should not be joined with nails but, wherever possible, be glued together. There are two ways of handling this matter of glue. One is to buy at any hardware store glue in bulk form. Hide or flake glue is the best and should be requested when purchasing this material. This glue should be soaked in cold water overnight or until it becomes a jelly-like mass. Then it must be boiled in a glue pot (a most unpleasant and odoriferous performance)—otherwise the glue will burn. When boiled down to the consistency of cream, the glue is ready for use and should be used hot; and, if possible, the parts to be mended should also be warmed. If not, the glue will become chilled, immediately thickening and losing its efficiency. After the parts have been glued together they should be held firmly in place for at least 24 hours with clamps or hand-screws. Hand-screws are two beam pieces held together with a wooden screw which when turned will draw the parts together, thus holding the break as in a vise. It is well to realize and understand this point: glue is *not* a cement but its holding qualities depend upon suction for powerful action in uniting two pieces of wood. Pressure applied to the glued joint forces out all excess glue, sealing the numberless pores of the wood, creating a sort of vacuum that will hold the joint until some unfortunate accident again breaks it and admits air.

The second kind of glue that may be used is a simple and most effective material known as a casein glue. This is a waterproof glue that is to be mixed only with cold water, thus obviating the disagreeable cooking process mentioned above. This glue is the kind commonly used in airplane manufacture and is, as stated, practically waterproof. It is not expensive, costing about the same as the more commonly known glue and, when used, will make a joint not affected by dampness or heat. The directions for mixing are sent with the glue and are so simple and explicit that the handy man about the house or the housewife herself can easily attain success in its preparation and use. The main point to be remembered is that the success in using this material lies in its first thorough mixing. Where a small quantity is used, an egg beater is excellent for this.

Broken chair legs in most cases should be doweled together. That is, a hole is bored in both parts that are broken and a fitted peg of wood inserted, glued and pressed together, thus reinforcing the broken part. Good chairs are fitted together with a mortise and tenon. The mortise, being a square hole, is carved out of the upper part of the chair leg, and the tenon, or square block, which is part of the chair leg, is fitted into this. These are then glued and held in place. Often a strain, caused by chair tilting and time, cause the glue to give way and one finds

Top of a Sheraton sideboard braced and held in place with many clamps to straighten out where it has waped, and to hold in place new veneer

A small table with a piece of mahogany veneer fitted into a broken crack and glued, ready to be chiseled off flush with the surface

A reproduction of an English turned arm chair that has been mortised together, glued and held in place with metal clamps

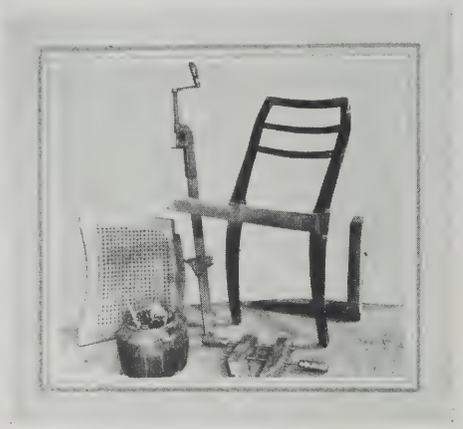
A chair with four corner blocks to strengthen and reinforce the frame. These are held in place with wooden hand-screws

a weakened or loosened chair frame. If by any chance the tenon is broken, it may be doweled back and should be reinforced with a corner block.

A corner block is a solid piece of wood fitted into the corner of chairs under the seat, also in table and bureau legs under the framework and should be glued in place, held with clamps until thoroughly dry and reinforced with a wooden screw which is an extra precaution for holding the block of wood and the furniture together, thus making it solid and firm.

A simpler method is the use of 'furniture menders'—steel angles to be screwed into the corners of broken parts. These may be purchased at any hardware store. Shaky table and chair legs and loose joints in furniture can be reinforced by screwing these angles into the corners. The loosened parts must be held in place by clamps or by lashing them together securely with heavy cord or rope wound around the chairs or table to be mended. When the parts are in proper position, set the steel angle in the corner and drill holes in the wood for screws in places to match the holes already drilled in the angle. The screws used to fasten this into place should have a little soap or paraffin rubbed on the thread so that they can be driven in with a screw-driver without breaking the screw. These angles will often make a good repair job where the use of glue is not practical. A little paint of the same color as the furniture or, sometimes, just a touch of varnish will make these angles unnoticeable.

Often when pieces of furniture have been mended one will find cracks and spaces left on the outer surface. These may be filled in with wooden slivers to fit the empty spaces and are held with glue. When this is dry they must be flushed off with a sharp chisel if the worker be an expert, or with sandpaper if he be inexperienced, making them smooth and even with the surface of the furniture, and then colored carefully to match the rest of the piece. After this is done they should be rubbed down and polished so that the whole surface is as it originally was.



An antique chair sadly in need of repair. In the left back corner is a mortise. The chair rail leaning against the wall shows the tenon, a square block-shape piece that fits into the mortise. On the floor is a wooden hand-screw, and the metal brace leaning against the wall is called a clamp

Still another method and one that perhaps the amateur will succeed with better is to use what is known as plastic wood. This comes in a can and can readily be moulded by the fingers into any shape desired to be applied at once *without glue.* Instead of the 'slivers' above mentioned, this soft wood can be pressed into cracks, sandpapered smooth when dry, and colored to match its surroundings. This will make a new wood as firm as that of the table or chair, a particularly useful medium when one is repairing carvings, nicks, or chipped-off corners on furniture.

Most furniture has a tendency to dry and crack in our hot, overheated rooms—especially veneered pieces, and furniture, whether antique or modern, that has recently come from Europe. When this occurs the pieces should be thoroughly cleaned and gone over with a coat of linseed oil which is left on for a time so that it will penetrate the pores of the wood. It is then wiped off dry and the furniture finished with a good, old-fashioned beeswax polish. Boiled linseed oil should be purchased and thinned with about one half turpentine. Wipe off before it becomes sticky or 'tacky' as the cabinet workers call it. Wipe very thoroughly, especially in corners and carvings. Use a cloth over a sharp stick or a lead pencil for this purpose. Any oil left in corners will turn gummy and collect dust. Best of all, try to keep the rooms at an even temperature. And, of course, every radiator should have a small vessel of water attached to it to insure the necessary moisture in the air that is required if one is to keep not only their furniture from drying out, but their walls and rugs as well.

The Way of the Hoe and the Why of the Weed

T. A. WESTON

THAT word 'cultivate'! What does it really mean? Among other things it means stirring and hoeing the soil to conserve moisture and aerate the lower depths, which are two essential factors in successful plant growing, and aside from this it means that weeds are destroyed while they are small. All the watering one may apply in dry weather is never of real service if one neglects to stir and cultivate the surface afterwards.

In a wet season like this, the general run of plants is really less happy than in a normal season when one can periodically hoe, for the simple reason that soil which is constantly wet, even if well drained becomes somewhat sour and mouldy; the surface becomes packed and the roots of the plants lack the air they so much need. For this reason, complete ground mulches are not always so beneficial as they are made out to be. In a dry season, they serve a useful purpose but when rains are persistent I would prefer to use the hoe even if it rains soon afterwards. In a year like this, one can appreciate the merits of the Dutch hoe. For over 30 years I have sung the praises of the Dutch, or English scuffle hoe as some call it, and my admiration for it is greater than ever. It misses nothing in its path and one does not have to walk over the ground after it is stirred. It is the tool *par excellence* between rows of vegetables, while for the flower beds and borders it cannot be equalled. Pronged cultivators and draw hoes are handy for breaking up hard surfaces but I would forego the whole crowd of them if I could have my set of Dutch hoes, 2 inch, 4 inch, and 6 inch. The 2 inch is not really a Dutch hoe but what in England is termed a spud. It is more or less like a chisel and is used on grassland for cutting out Thistles and other big weeds. I find it an ideal tool for my intensive gardening as I can work among beds of seedlings, among the Gladiolus, Roses, Violas, etc., with the greatest of ease.

Pygmalions Among the Hardy Perennials

Some native wildlings that are honored in our gardens

ALFRED C. HOTTES

Horticulturist, Ohio State Experiment Station

THE flowers of yesteryear may have been grasping weeds but to-day some them are choice flowers for the garden glorified weeds we might call them.

You will recall the story of Pygmalion, girl of the streets in London whose ckney accent was pronounced and ose behavior was such that she was, ong people, what we would call 'a ed' among our plants. Careful educa- n to take up the graces in action and eech resulted in her insistance upon the e of a duchess born to court. At last she as just what she pretended to be. Here en are a few weeds which have been ught to wear their noses high, rouge eir lips, and curl their hair.

The more we study flowers, the fewer eeds there are. Every flower has some int of interest, some mechanism of llen distribution, a curious adaptation its life, perhaps a subtle scent, maybe unusual seed pod, a strange method of opagation; at least there is generally me redeeming feature which commends to our interest.

Along the roadsides of much of the United States the Yarrow grows in abandoned luxuriance; a flat-topped cluster of white flowers of individual beauty. The leaves are as dainty as the finest lace, precisely cut and attractively arranged. We pass it by remarking that this is only the old Yarrow. Oftentimes we need a quantity of flowers for a church or home decoration in June. Then we do not pass it by but seek it in the fields and there pick armfuls. It is then that we discover that some of these plants have flowers of a pinkish tinge. We find that these combine well with the white. The next Winter we look through our catalogues and find that the Yarrow is known as Achillea millefolium and that a rose-colored form is listed as the Rosy Milfoil. We order it and plant it in our garden.

In our catalogue next to this we see Achillea ptarmica and several varieties listed. They all seem much the same from the description but the name The Pearl intrigues us, so we order this—to find later that our friends tell us that Perry's White is larger, and makes a better cut flower. Perhaps we note in the garden of some friend a more compact, upright sort: this we learn is the Boule de Niege. Our admiration for the whole family of Yarrows increases so that we search to find that there are two yellow sorts.

In early spring we note in some garden a perennial with perpendicular sage green leaves. Very attractive leaves we think they are, but with leaves not unlike our common Yarrow. It is the Fernleaf Yarrow, Achillea filipendulina and grows about three feet tall, bearing yellow flowers. It does appear a bit shabby by fall but then it can be cut down to the soil.

In a rockery we discover a dwarf sort with grayer leaves and little tufts of yellow flowers. It is the Woolly Yarrow, Achillea tomentosa, a veritable mass of gold in the garden.

The roadside Sneezeweed enters our own gardens in bronzy-red and golden improvements

The Kansas Gayfeather is accepted in gardens just as is; and it improves by culture

Sunflowers are legion and a surprising variety of perennial forms ranging up to several feet in height (right)

This, then, is an admirable group of weeds which our interest has transformed to lovely garden flowers.

REFINEMENTS IN SNEEZEWEED

In ditches and the borders of moist woods of the Central West there grows a yellow, daisylike flower which at first glance resembles a Sunflower; we pass it by. We do not see how attractively its petals are notched nor what a showy round center it has. We are not botanists, perhaps, and do not see that the stems are winged, that each leaf has a little extension running down the stem. When we look in our plant catalogues some Winter day we note that of Heleniums there are a number of varieties; the description says there are golden, maroon, chestnut brown, and terra cotta. Such colors are unusual! We order a few. They are planted in the spring and in late August they bloom and you discover they are but educated sons and daughters of the obscure native Helenium autumnale, or Sneezeweed. As these were named for Helen of Troy let us drop a name so unpleasantly suggestive as Sneezeweed and call then Helenflower or Helenium.

Here are the varieties that all persons like: Superbum, golden yellow; Rubrum, bronze-red changing to terra cotta; Riverton Beauty, lemon yellow; Riverton Gem, old gold painted terra cotta and changing to wallflower red. It is true that after we have tried to grow them we will discover their faults—they do not care to stay with many persons, the leaves dry up, a worm gets in the crown but even so what few do live are admirable. You can make cuttings of the young shoots in late spring; they root easily.

SONS OF THE SUN

Having mentioned the perennial Sunflowers we should know that they are not all vulgar weeds with grasping ways. Some sorts are admirable at the back of a border. Do you know the tiny flowered sort, known as Helianthus orgyalis, with its long and very narrow leaves which produce a veritable fountain of growth? Some believe these plants to be Lilies when in the young stages of growth. Have you the Ashen Sunflower, Helianthus mollis, with its grayish, furry leaves and its soft yellow flowers? Yes, Sunflowers can be lovely. Do you need summer cut flowers? Then you need the double variety of another weed, called in botanies, Helianthus muliflorus or decapetalus, the Thinleaf Sunflower. This double sort does not spread fast enough. The stems are firm, the fully double

Blue clouds of Aster bloom drifting into pink are improvements on the roadside wildlings, larger flowers and brighter colors

flowers are three inches in diameter. For late rich profusion of yellow flowers—till frost arrives indeed—there is the species angustifolius, with long stalks studded for several feet with its small (for a Sunflower) blooms.

HELIOPSIS

More orange than the Sunflowers is another splendid perennial for cutting, known as the Heliopsis. In its wild form it has a coarse yellow flower with a high center which has a shabby brownish caste. The foliage is quite sand-papery. The variety excelsa, however, is a fully double flower with gracefully overlapping petals. It is splendid for cutting inasmuch as the stems are firm, and the color is pleasing; furthermore, it has a long season of bloom. When used for the border, it may be set as a background, inasmuch as the plants are often four feet tall and furnished with an abundance of foliage.

Some persons even consider the lovely wild Asters as weeds. They are too common with us and we do not admire them as do the British. Of course, with our roadsides of August gay with Asters, we should grow better and different sorts in our gardens. There is the blue one, Blue Gem, with double flowers; the best pink an improvement of St. Egwin, known as Lady Lloyd; there is the wine-colored variety of New England Aster, a tremendously profuse flowering sort known as novae-angliae roseum superbum; there is Sam Banham, the finest white and the lavender blue Climax for cut flowers. No great cultural care is needed except that they should be transplanted in the spring, not fall.

Frequently the visitor to sunny fields and the edges of woods finds huge clumps of the blue Eupatorium coelestinum, the Mistflower. Such persons who find these for the first time believe these to be hardy Ageratum. Plant them in front of and among shrubbery. Let the summer be dry, return from your vacation to your neglected garden, the Mistflowers are blooming in great profusion. Their lovely blue flowers may be cut in abundance. There will be sufficient plants to divide for your neighbor or if not, the seeds grow readily and bloom the same year as sown.

Where the Gayfeather, Liatris, grows wild they are often unappreciated. The tufted rosy purple flowers are borne in long spikes and so attractive are they in color that few persons look closely enough to see that the flowers open unlike any other. The buds at the top open first and progress down the stem. 'Rosy purple,' you will say, 'how subtly this is stated, that means that they are magenta. I do not want magenta in my garden.' Plant these flowers away from the salmon and flesh pink flowers and they will be charming, offering as they do the vertical note to the midsummer garden.

THE FALSE-DRAGONHEAD

A common perennial that has been completely educated is the False-dragonhead, Physostegia virginica, in the person of its variety Vivid. This is the old favorite Accommodation flower or Hingeflower, so named because the lipped flowers are produced with swivel joints so that the flower may be turned at any angle. You may face the flowers to one side of the spike or turn them in various directions, and they remain as placed. Vivid is a deep rose, more dwarf, more compact and later flowering than the type. Even the gardeners who exclude the old type from the garden because of its grasping ways, admire this new variety and plant in a profusion for September garden effect.

The Pearl Achillea, a rapid spreading white Yarrow, is one of a host of related kinds that give midsummer bloom

Plastic Paint and Wall Decoration

Color and interesting texture for simple and formal rooms

JEANNETTE KILHAM

ONE of the first matters to come to our attention in making our houses ore interesting is the treatment of the ll surfaces. It is important that they rround and enfold our rooms with an mosphere of beauty and form a flattering ckground for our hangings and furni-re.

Color has assumed an important rôle modern decoration as can be seen in se-colored stoves and lilac bath tubs. ow the rich decorative qualities that lie texture are beginning to be appreciated. modern material that will aid in giving e needed character and richness to our lls is plastic paint, a material that com-nes both color and texture. Plastic int comes in powder form ready to be xed with water and is applied to the ll with a brush, just as is ordinary int. Color is applied directly to this aterial or to a glaze which is waterproof. ne result is a plaster-like finish, some-nat like the one we see sometimes on the terior of houses, only it is much finer grain, and infinitely more flexible when comes to color and texture treatment. fact, its effects are so endless that they ay be grouped best into classes accord-g to the general type of architecture of e house in question.

With the dark-stained oak woodwork d rough-hewn beams of the English use a fairly rough and irregular finish effective. The sweep of the trowel or the nd of the workman, which brings with it that intimate feeling of the sturdy craftsmanship of medieval days, should be clearly visible. Such a wall should be glazed in shades of old parchment to tone in with the dark-stained woodwork and the glaze well wiped from the highlights to bring out the picturesque quality of the texture. A wall of this type is alive with interest and at the same time offers an enchanting background for full-colored printed linen hangings, an occasional chain or chest in red lacquer, copper kettles, and pottery of primitive hues. When the hall, dining, and living rooms are connected by wide double openings the rooms should be treated alike to make for unity and a sense of spaciousness. A touch that does much to give the English room finish is a rope molding at the junction of the wall and ceiling. This should be blended in with the rest of the wall. Ceilings should be of a lighter shade of plastic paint somewhat smoother in texture than the walls.

If a rough texture is desirable in the English house, quite the opposite is demanded in the Colonial house. Lightly stippled and brushed textures, glazed or self-colored in shades of apple green, buff, soft blue gray, deep yellow, powder blue, or a light chocolate fit best in the picture. In the more formal Colonial house panel effects are charming. Stock moldings may be tacked to the wall and the panel field finished in one texture, the wall ground or stiles in another. For instance, if you want a neutral scheme the stiles could be of a brushed texture glazed a light dove gray and the panel fields could be stippled and glazed in a lighter shade of the same color. The panel frames or moldings could be painted a slightly darker tone with an accent of silver, French blue, or dull lavender rose. A gayer scheme would be to use two shades of robin's egg blue with moldings of antique gilt. In connection with the coloring of the moldings the coloring of the woodwork of the Colonial house should be mentioned. To paint the woodwork of the Colonial house white or even ivory throughout denotes a deplorable lack of imagination. The woodwork in many of the original houses which have inspired our Colonial replicas was painted in various colors, pale yellow, blue green, olive green, etc., and gained much life by the addition of a little of the color so lacking in many Colonial houses of to-day. Lightly patterned (*continued on page 652*)

The unusual doorway is emphasized and offset by the textured wall which is thoroughly in keeping. (*Craftex Co.*)

Here the surface has been finished in bold angular pattern to harmonize with modernistic furnishings. (*Craftex Co.*)

Plastic paint gives a cool and airy effect in this pleasant Pacific Coast home. (*Photograph courtesy Celotex Co.*)

The Piano Holds Its Place

Both doctor and decorator recommend it

DERRILL W. HART

THE piano is the fundamental musical instrument for the home, whether that home be large or small, and during the last quarter of a century the attitude toward the piano in the home has changed perceptibly. It is no longer a musical instrument procured only for the culture of the young lady of the house, but it is also a component part of the decorative scheme of the room in which it is placed. Usually, inasmuch as it is the largest piece of furniture in the household, it presents a definite problem, particularly if it is a grand piano, and is bought after the decorative scheme of the household is established. In the large home the problem is easily solved since there is often a room specially given over to music. If not, the proportions of the drawing room or living room are such that the piano can find a place naturally, without causing any serious disturbance in the decorative scheme.

In the smaller home, however, where the piano is usually placed in the living room, it presents a definite problem as a piece of furniture. In the purchase of a piano the design of the room and of the other furnishings in that room must be considered seriously, or else the piano

Living room designed by Eugene Schoen at the 1928 Art in Industry Exhibition (R. H. Macy & Co.) The piano (Hardman) is modernistic, too, inlaid with woods in browns, tans buffs and golds

This Florentine hand-painted Grand (Vose) in green, gold, and ivory would also be appropriate for the Early English room

This Colonial model (Steinway) may be called Early American, and harmonizes beautifully with the modern room of Colonial inspiration

Living room of a real music lover and musician, Mr. Alfred Willard of Cleveland, Ohio. The piano (Weaver) is quite in keeping with the dignity and simplicity of the home

Studio designed by Lord & Taylor. The Heppelwhite Grand (J. & C. Fischer) is thoroughly illustrative of the beauty and design that can be had in pianos to-day

ill be more out of tune from a decorative tandpoint than from a musical one! Iome space is more valuable these days, nd labor-saving devices have made it ossible to utilize it to the fullest extent. Once upon a time grand pianos were ade only in ebony or mahogany. Any iversion from these two popularly accepted types meant a specially designed ase, anywhere from the famous Marquand piano that took five years to complete and cost $40,000, to less pretentious, ut always expensive, ones, entirely out f place in the small home.

Less than a generation ago the piano anufacturers realized that the American ome, with its fast increasing interest in ecoration, wanted and needed a much ider choice in its selection of a piano. Meeting this challenge they broke away rom the traditional ebony and mahogany ases with a vengeance, until now it is lmost impossible to visualize any sort of ving room for which a suitable piano odel cannot be found. The range of odels is wide, and the decorator advises hat the piano be chosen to suit the type f room for which the decorative scheme s laid out, and afterward that the remainer of the furniture in that room be bought n relation to the piano.

The small grand is the direct outcome of he appreciation of the grand piano as a usical instrument and the possibilities hich it affords in design. The small rand can now be secured in a full range f designs through a succession of Colonial, Spanish, Sheraton, Heppelwhite, Chippendale, Louis XV, Louis XVI, Adam, Chinese, Renaissance, and so on, own to the modernistic adaptations hich have been exhibited recently, some f which have (*continued on page 660*)

This Early English room decorated by Vernay, Inc. has an interesting collection of real period pieces. The Eighteenth Century Period Grand (Steck) is after Scheered

Another Early American Grand (Everett), appropriate for the modern American living room

For the large living room a real Concert Grand like this (Baldwin) in black ebony is desirable as a musical instrument and fits in with the decorative scheme

Early Eighteenth Century living room, by Lenygon & Morant, Ltd. The Queen Anne Grand piano (Weber) in golden walnut tones is charming with the pine paneled walls

In this Italian room decorated by Wm. Baumgarten & Co., the full richness of Mediterranean art is illustrated. The Florentine Grand (Weber Duo Art) is in dark walnut

Stone and wood have been combined in exceedingly interesting fashion and all the detail shows the impress of a thoughtful and appreciative mind—here was a man who loved old beauties, absorbed and profited by them. Doorways, chimney, and porch treatment attract notice: and the house is nicely tied to its site by rockwork

Rarely restful and yet not lacking in color are the pine-panelled interiors (opposite page). Yellow and sapphire are the dominant tones in curtains and chair coverings and the braided rug echoes these colors plus an enriching touch of black (upper picture). A Georgian chintz and small rugs carry rose, green and buff in the studio shown below

A HOUSE OF OLDENTIME AIR

Home of Mrs. Henry W. Rowe at Greenwich, Connecticut

HENRY W. ROWE, *Architect*

Photographs by George H. Van Anda

The beauty of design in the new pewter is exemplified in these bowls and pitchers and plates that come from the shops of some of the oldest silversmiths in our own land. (Courtesy of Reed & Barton, Mandix Co., Ovington's)

The New Pewter

Points to know about this new-old ware for our dining tables

ELLEN D. WANGNER

PEWTER has come back and come this time, we believe, to stay. For pewter has three outstanding and enduring qualities: it is beautiful; it is serviceable; and it is not expensive. And another quality most desirable has this modern pewter—it does not tarnish readily or grow dull. In fact, its silvery luster holds bright longer than does that of silver itself.

Once, long ago, pewter ranked second only to silver in the esteem of the housewife. That was before china dishes and earthenware were made for her table. When they were, when Lowestoft and Staffordshire and Wedgwood and Copeland came into being to hold her teas and coffees, her vegetables and puddings, pewter was tossed into the discard. Fortunately, pieces were kept by those who treasure old things of beautiful lines (and that old pewter *was* beautiful) so that we to-day can see it and know of the artistry and skill that went into the fashioning of pewter ware long years ago.

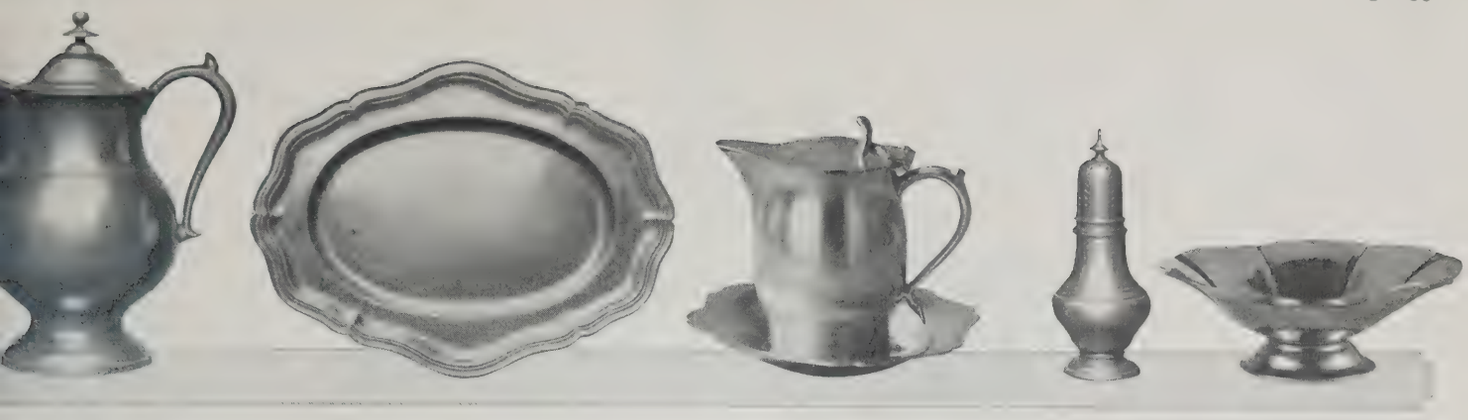
With the present intelligent appreciation of interest in all phases of life in the early days of America comes a revival of appreciation of the soft beauty and allure of pewter. To-day throughout the land there are busy 'pewter factories' where tin, antimony, and copper are mixed and blended in such proportions that we are able to have this beloved ware practically non-tarnishable. Oh, shades of those little Dutch maidens in New Amsterdam whose little elbows ached from polishing the pewter on their shelves and chests because *their* pewter held lead as one of its properties! We of to-day know better. We would not care to drink tea from a vessel mostly made of lead! Neither would we spend long hours of hard polishing to keep it bright. The modern alchemist knows this and has worked out the new proportions in his pewter formula so that he uses almost pure tin with just enough copper and antimony to stiffen it. The formula reads about 93–6–1, the 1 being copper, giving us a metal that can be hand-wrought or worked on a wheel.

Long ago, in the early days of pewter-making in England, there was a Pewterer's Guild and each piece had to be marked by the Guild, and with the maker's own mark as well. When fashions and customs crossed the seas in those days of the colonies and pewter began to be made in the new land, this marking was adhered to, and in our museums and private collections we may find these old pieces with their hallmark plainly showing, placing them among the old families and aristocrats of tableware. And we are still marking our pewter—a delightful custom that lends added worth to porringer or pitcher. Who would not thrill at seeing on the bottom of compotière or graceful bowl the name 'Just Andersen'? Who would not doubly treasure plate or candlestick if he knew that it had been hammered and fashioned by some craftsman who signs his work as would a painter? When the lovely pitcher we have seen in a shop window bears the name of some artisan, whether American, English, Swedish, or Danish, we feel a sense of personality behind the article that doubly endears it.

An unusual little server of many uses

The Romance of Pewter carries us back to the days of Roman conquest, when they found tin in Great Britain. We hear of it in tales of chivalry and knight-errantry. Many a stirrup cup has been drained from a pewter flagon. It crossed the seas with our own colonists, it has adorned the tables of the great in other lands and in our own and now it has been revived to grace the loveliest tables the world has ever known—our own of to-day. Do you realize in truth the loveliness and perfection of the modern dining accessories? We speak of the rare linens from Egypt, Italy, France, and here they are in matchless design for *our* tables! Do we like the glassware of Spain or Bohemia? Quantities of it awaiting us—even reproduced in inexpensive ware for the simplest home. Nevertheless it holds all the grace of line of the costliest products.

Do we like Georgian Silver? French? Early American? The silversmith of to-day has reproduced them all, casting aside those too ornate for the fine simplicity of modern taste and saving only the finest line and design for us. And now pewter has been added to the list of table furnishings—pewter of such beauty that with no suggestion of discord we can use it with our finest silver. The hostess who likes the soft reflected glow of lights from a silver service and whose budget will not permit this luxury can now have this beauty for her table by using pewter since its finish follows that of silver so closely as to lend much of the same beauty. Is the coffee service in a French gray or



The lovely new pewter also comes to us from the craft studios of pewter workers in Denmark for the American table. Highly polished as silver, lined to withstand the acids of food, they are fittings worthy of the loveliest home

tter finish? There is pewter of the same t tone, and to match the high polish on me silver is the highly polished pewter. Moreover, styles and periods can be tched so that it is difficult to distinish where the silver table service leaves and the pewter begins. Finger bowls, ead and butter plates, jugs, trays, rringers, meat platters, pitchers, urns, d tea and coffee services, all hold true the best of old designs. some English designs, na in rich floral color- has been rimmed with wter, making a most usual addition to the ble.

A complete outfit for the smoker

Nothing, however, seems hold so much of allure and appeal as do e tea sets. The fat, squat, 'comfy' teapots another century have been copied and set small servers ready for our tea tables. d one need not hesitate to drink the ew poured from these for they are so ished that there need be no fear of a tinny or metal taste. The low prices of these various pieces are as attractive as the articles themselves, and we find a set of six bread and butter plates for $12, with a three-piece coffee service for $35.

Pleasing indeed are the lamps now made in pewter—of every shape and size in new designs and in faithful copies of the old ones. Here is the old bull's-eye lamp that concentrated the light for sewing, and other fine work; here, too, the little handled saucer-like night tray with the small lamp in its center. The graceful candlesticks of another time are ours for the choosing either to hold candles or be used in sconces on the wall with electricity instead of tallow.

We have stated that the new pewter is non-tarnishable. That should be qualified by saying that this modern metal does not need *frequent* polishing, but will remain bright and silvery for months at a time under ordinary circumstances; but it does require care. One firm of silversmiths in turning their artistry to pewter have also manufactured a fine polish so that their pewter, or any pewter, may be kept shiny, and if one really wishes to revive the use of this attractive ware, it must be kept bright with the soft satiny glow that no other metal possesses. We are so accustomed to seeing collections of dull, dark, dingy old pewter that the impression has wrongly been conveyed that this is the real pewter color. It is not the color of pewter either old or new; it is merely a color that spells lack of care. To clean pewter any non-scratching polish will do, but if used regularly, hot water and soap will keep this ware bright for years.

There is a peculiar charm in this old ware on our new tables—it helps us to feel that modernism has not banished all of the old days and customs, and that 'the tender grace of a day that is dead' still clings and lingers about our homes.

What About Soils?

F I were viciously disposed I would collect a dozen soil prescriptions from rious garden books, all using precisely at word 'should,' which in garden practe excites my particular aversion. Just soon as a man or woman begins to write the 'should' style I know I am going to directions which, whatever grain of th there is in them, are based upon the her familiar practice of arguing from ect to cause, and with no particular itation as to what the cause might be. So it is with soils. If one man has made veird and wonderful mixture of all the ferent things that he has which will y in the ground, and in that grows a althy and husky Rose or a hill of Beans, is prone to think that the prosperity sulted because he did the mixing, and t in spite of it.

I suspect that the truth is that all over arable America, Divine Providence has had it in mind that we should grow anything we ought to grow in whatever soil there is. Nothing seems more definitely certain than that the animal excrement which we call manure adds fertility and sometimes desirable lightening of texture to any and all soils.

Gardening is a comparatively intensive proposition, and horses are not yet extinct, nor has synthetic milk taken the place of that from the humble cow. It may be assumed, therefore, that enough industry and inquiry will dig up or get at stable manure nearly everywhere, and this seems to be the proper thing to ameliorate and improve sand and clay and soils of all textures.

What I have not found out about soils at Breeze Hill in some seventeen years of intensive gardening effort would take several numbers of this magazine to print. I have found that this rough and seemingly impossible clay shale will do for me whatever I authorize it to do by attention and the introduction of proper fertility. I have seen soils in Florida that did not look as if anything could grow in them, but many things did grow.

So my own soil prescription is one of simplicity and manure, principally manure. If I had to add anything to it, it would be leaf-mold, made from collected garden refuse and by reasonable care rotted into that texture which permits it to be easily applied, especially to the heavy soils that seem to need its lightening and improving touch.

J. H. McFarland

Lawn group with Magnolias and Red Cedars in the Country Life Press gardens

Insuring the Lawn Against Insects and Weeds

You poison the soil before sowing the seed

B. R. LEACH

Bureau of Entomology, U. S. Dept. of Agriculture

LATE summer and early fall are the best times of the year for planting lawn grass seed. The somewhat cooler temperatures are more conducive to the germination and growth of the young grass. Weed germination and growth are slowing up, and the newly sprouting grass has less to contend with from this angle in making a strong growth and becoming firmly established.

While the fundamental principles of lawn making are fairly well understood the fact remains nevertheless that good lawns are few and far between due largely to the attacks of the enemies which invade the newly established lawn, and render it extremely difficult for the turf to maintain itself in first-class condition. Grubs and weeds are the worst enemies of a fine turf, and earthworms are a decided nuisance.

But there is a simple and inexpensive method of treating the lawn *while in process of construction* so that it can withstand the subsequent onslaught of grubs, worms, and weeds during the years to come.

In practically every section of the country fine turf is subject to injury by one or more species of turf-feeding grubs such as the May beetle grubs in the East and Middle West; the June beetle in the South; and of late years, in certain of the eastern states by the recently introduced Japanese and Oriental beetle grubs. Our native white grubs and these imported grubs from the Orient are all essentially alike in their habits. They are especially fond of the roots of fine turf grasses and when present in sufficient numbers the grass becomes weakened and dies out in patches. The life history of the Japanese Beetle was shown graphically on page 406 of the June issue.

If you have a dead area in the lawn it may be the result of Japanese beetle. Here you see what the rolled back turf exposes

The lawn failure is caused by the Oriental beetle, and must be guarded against by treating the soil with arsenate of lead when preparing for seeding

The rich soil of the lawn is an ideal place for weeds to take up residence and thrive lustily. The fine-leaved and shallow-rooted turf grasses cannot compete with the heavier root and top growth of these weeds and are gradually choked out by such weeds as Chickweed and Crabgrass. Hand removal of such weeds is practically impossible in extensive lawn areas, first, because the cost is prohibitive and, second, because this type of weed makes a low, matted, many rooted type of growth which cannot be entirely removed without taking up the sod entirely.

For many years the golf courses have spent untold thousands of dollars in combating grubs, worms, and weeds employing methods which were expensive, intensely laborious and discouragingly inadequate. During the past three years more and more of these courses have changed their systems of turf management and are swinging over to the chemical control of worms, weeds, and grubs by the use of arsenate of lead. On golf courses the method has proved to be foolproof, efficient, and relatively cheap. There is every reason to suppose that the method will prove equally valuable for the lawn.

In the June number of the Garden and Home Builder I discussed the method of grubproofing established lawns. Now we are grubproofing lawns in process of construction. The method in (*continued on page 671*)

Building First With Paper

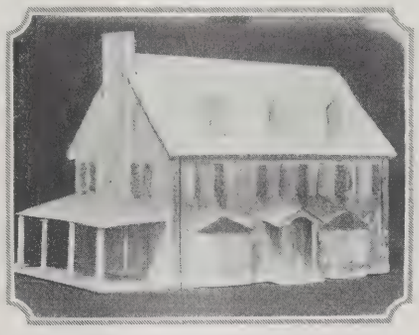
A diverting way of discovering exactly how your house will look when finished

C. D.. TUSKA

THERE is always a first time for those of us who decide to build our own mes. In our particular case we spent ny long hours studying houses. It is en admitted that we visited every house der construction within a radius of sev- l miles. The local hardware dealer will l you that we wore out two perfectly od fifty-foot tapes and one six-foot ruler. y wife insists that I measured every om in our former apartment until it ust have been an obsession, because we th knew the exact sizes of every room wn to eighths of inches.

In due course we were sure we knew r requirements, layout, room sizes, and st how much money we could spend. With these basic details settled we found at our months of observation of houses, chitects, and builders made it easy for to pick an architect. I suspect our plans nt through all the usual changing ges, but before very long the architect unded out our preliminary sketches into mething on which the contractor could ure. Finally the big night came when placed our approval on the plans.

We were sure of the interior even to the tent of knowing where every piece of furniture would fit and what new articles were needed. But what would the outside look like? Remember, if you please, this was our very first house. While the blue prints conveyed some sort of impression, it was far from convincing. Fifteen minutes after the architect and contractor left us with our set of plans, we began to wonder if our exacting demands for the interior would leave us with an exterior which would serve no other useful purpose than to cover up the required interior. Would our hearts swell with pride as we viewed the charming proportions and skilful design of the exterior? Our interior requirements were so plain and regular that we both feared a box-like outside. This would not do at all.



Making the paper model (above) was entertaining and enabled us to visualize our house

We decided that a model would answer our questions. There was neither time nor money for a model and the problem was to construct a model without tools and within the limits of our apartment. Now comes the story of how we did it. Scissors, ruler, and pencil were the tools; drawing paper and paste, the material. Later on we discovered that some patience is desirable, and skill is acquired.

To illustrate the general method, I have drawn the first floor plan (Fig. 1), the second floor plan (Fig. 2), the front elevation (Fig. 3), and one end elevation (Fig. 4). To complete the model the rear and remaining end elevations were necessary, but these views are not included in this brief article. The actual scale of these drawings for a paper model should be one quarter inch to the foot as this is the most practical size for a drawing-paper model. Heavier paper would permit larger models.

Notice Fig. 5 which was also drawn one

is the way it the very day we moved in ew home, for Mr. John W. was the architect

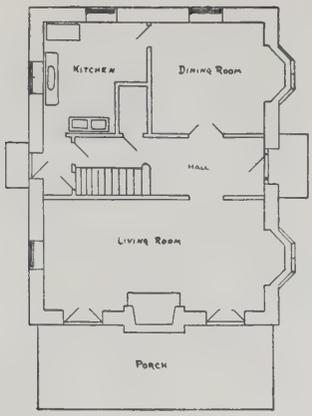


Fig. 1, the first floor plan drawn and ready to use in the paper model

Fig. 3, the front elevation which, like the other parts, was drawn to scale

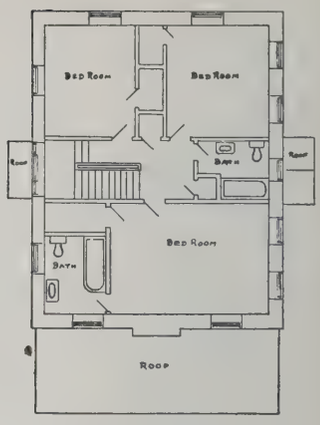


Fig. 2, the second story, was included in the group of sketches for the model

quarter inch to the foot.* After this has been cut out and properly folded it makes the front wall, and part of the roof. The shaded areas are flaps which are folded and pasted to adjoining parts such as sides, roof and base. All dotted lines are folded to form flaps for glueing or parts of the house detail. One of the folds at the top of the second story (Fig. 5) makes the cornice. The dash dot lines are location lines for structures which are to be added, such as dormer windows. The windows in the second floor are partly cut out and folded back to make shutters. In the cut out window space thin paper is pasted to give the appearance of window glass. Lines may be drawn on this thin paper to convey the suggestion of small panes.

*Original drawings by the author have been considerably reduced because of space limitations.

One most important element in measuring certain dimensions, is to be sure to take the length of any part from the proper sketch. For example, if the distance of the roof from cornice to ridgepole is taken from Fig. 3. it will be too short. This distance must be determined from Fig. 4, making allowance for the part of the roof behind the chimney. The rule to follow is to always take the length, width or depth from the view making that dimension the longest. Try to picture the front (Fig. 5) after all the folds have been made and as it is glued to the side elevation (Fig. 6).

In our case the bay windows in the front of the house cannot be made out of the flat front of Fig. 5, but must be made on a separate piece of paper. The dimensions for the bay windows are taken from Figs. 1 and 3. The cut-out for the bay windows and roof is shown in Figs. 7 and 8.

The three dormers in the roof are designed from Figs. 3 and 4. The dormer detail is shown in Figs. 9 and 10. Other details are covered in the several figures of porch roofs, columns, porch floors. Porch colums are made by rolling the paper tightly and, after springing back a little, it will hold its shape. These same general principles may be followed throughout.

You will discover certain details too minute to apply with paper and paste unless you have more than your share of patience. Personally I prefer to draw these details in pencil and have suggested this in window sills, front door, rain gutters etc; shown in Fig. 5.

Perhaps I did not declare my intention at the very start, but I never had in mind making this a 'how to make it.' My purpose was to simply give a series of suggestions which would enable others to follow the scissors, pencil, paper, and paste route. In our case we attempted some water-color, such as painting the shutters and blocking in stone. We were not very successful and now suspect that such work falls into the artist class and requires a union card!

Making the paper model gave several evenings' entertainment and it did enable us to visualize our house. In Fig. 11 you have the model, and Fig. 12 is the very house itself the day after we moved in.

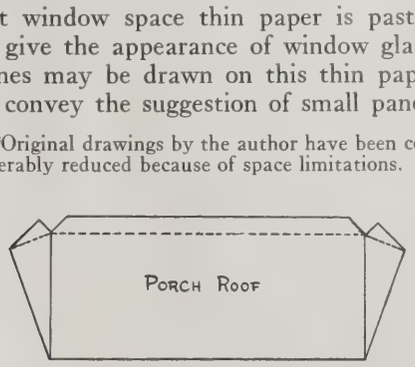


FIG. 8

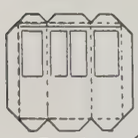


FIG. 7

FIG. 6

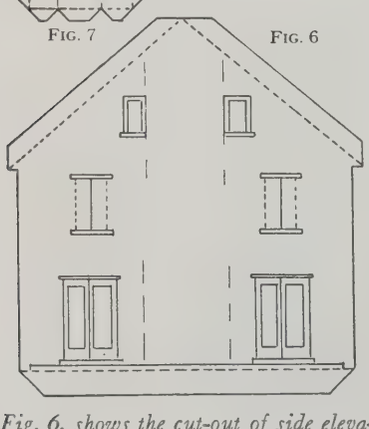


Fig. 6, shows the cut-out of side elevation, Figs. 7 and 8 give cut-out for bay windows and roof, also detail of column

Fig. 4, west end in elevation—an important factor in measuring distances (see text)

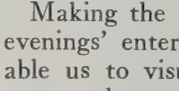


FIG. 10

FIG. 9

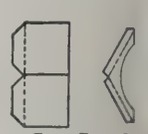
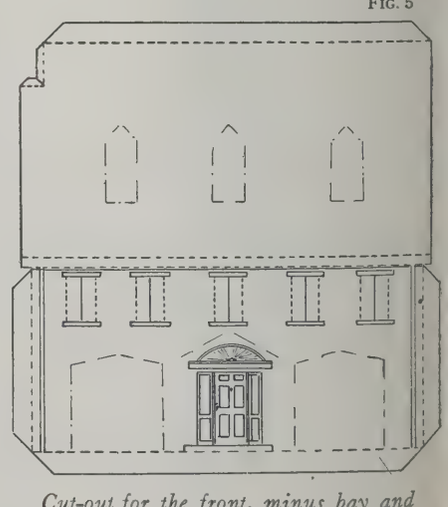


FIG. 5



Cut-out for the front, minus bay and dormer windows (Figs. 9, 10), appears above (Fig. 5)

Some Practical Pointers on Furniture Painting

Hints for the amateur on how to go about a painting job—satisfactory color combinations

FRANCIS W. HENRY

ONE gallon of paint will cover approximately 350 square feet. Never leave your paint uncovered over night, and never allow brushes to remain in paint, stain, or varnish. It is dangerous to thin paint or clean brushes near a flame. It is poor economy to use cheap brushes or to punch or jam them into the corners of the work. They will be spoiled by such treatment. When through with the day's work, clean out all brushes in turpentine.

Before painting, coat all knots and sappy places with shellac. Clean out all shellac brushes with denatured alcohol only. Don't forget to putty all nail holes before applying the second coat. It is better to apply thin coats of paint than thick ones. Never apply new paint over cracked or blistered paint, but burn or scrape off the old. Buy a good brush, whether for painting, staining, enameling, or varnishing, and take care of it!

For painting sash and all small surfaces use a 3 or 4 inch brush. For varnishing floors use an oval brush. For painting or varnishing furniture and woodwork, use a 2½ inch brush for the larger surfaces and a 1 inch brush for the moulding and smaller surfaces.

Assuming that you have chosen the color combinations, let us begin the actual work. Cut a paddle of hard wood about 3 inches wide, 18 inches long, and ½ inch thick. Open your can of paint and stir the contents until it is thoroughly mixed. If too thick, thin with a little turpentine and add about 1 large tablespoon of liquid dryer to every gallon of paint. After the paint is thoroughly mixed, pour it into another can, through a piece of wire flyscreening. This is done to exclude all pieces of hard paint skin or rough material.

If you are to paint the interior woodwork or standing trim in your home and it is new, go over the entire surface lightly with No. 1 sandpaper and brush it off well before applying the first coat.

Always allow thirty-six hours between coats for drying. Before applying the second coat, go over the surface lightly with No. 00 sandpaper to remove any roughness. Apply successive coats till an even or uniform color appears over the entire surface of the work, always sandpapering lightly between coats. Then apply one or more coats of colorless transparent varnish, provided you can secure it. If you cannot, make an enamel of the desired color by mixing with a good varnish a sufficient amount of the paint—about ¾ varnish to ¼ paint. On new work always touch all knots and sappy places with shellac and let dry before applying any paint.

If the old paint or finish is cracked or blistered, remove with liquid paint and varnish remover and repaint it the same as new work. If the surface is free from the above defects, it will not be necessary to remove the old finish. Simply go over the entire surface lightly with No. 1 sandpaper and refinish as in new work. These instructions apply not only to the interior woodwork but to furniture as well. Bedsteads, bathtubs, water boilers, fixtures, porch floors, porch and lawn furniture are among the many things about the house that need repainting.

Clean all soiled painted surfaces by washing off with cold water and any pure soap that does not contain too large a percentage of lye.

The finishing or refinishing of hard woods is within the ability of any home tinkerer who is at all mechanically inclined.

A walnut color paste filler is made by mixing an equal amount of burnt umber and burnt sienna and then mixing it with the plain paste filler and thinning with turpentine (adding about a teaspoon of liquid dryer to every quart of the mixture) until it flows from the brush like a thick paint. The above mentioned colors, burnt umber and burnt sienna, as well as all other colors, such as rose pink, light or dark oak, drop black and others can be bought in one pound friction top cans and are ground in oil. It is a putty-like substance. These colors blended together and mixed with the paste filler, can be used not only on interior woodwork but on furniture as well.

Oak colors, light or dark, can be bought in the one pound cans and after being mixed with paste filler and thinned with turpentine as described, are ready for use.

Mahogany, light or dark, can be made by mixing rose pink with paste filler and, if too light or bright in color, can be toned down or darkened by the addition of a little drop black.

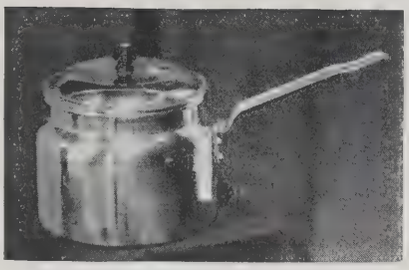
To apply the filler on new work, first sand the surface thoroughly with No. 0 sandpaper and dust it off well. Then apply the tinted paste filler with a brush, with and across the grain of the wood, over a surface of not more than 2 x 2 ft. at one time. With soft dry rags gently wipe off all the filler, care being taken to clean out all moulding and corners well, leaving only that which penetrates and seals the pores of the wood. Do this bit by bit over the entire surface. After it has dried for about 36 hours, sand the surface lightly, taking care that you do not sand through the sharp edges on the work or they will show light after the piece has been varnished. Use No. 00 sandpaper for this purpose. Now give the surface one or more coats of good varnish and allow not less than 36 hours for drying between coats. Before you apply a coat of anything always give the previous coat a light sanding with No. 00 sandpaper to insure smoothness.

In painting furniture and interiors it is advisable to use a recognized brand of good quality paint. Some satisfactory color combinations are listed below.

Colors for Large Surfaces	*Suitable Trimming Colors*
Cream	Modern Brown
	Sage Green
Ivory	Willow Green
	Golden Brown
Colonial Yellow	Willow Green
	Gloss White
Golden Yellow	Golden Brown
	Antique Brown
Golden Brown	Golden Yellow
	Tobacco Brown
Sea Green	Gloss White
	Sage Green
Pea Green	Ivory
	Moss Green
Willow Green	Ivory
	Apple Green
Bronze Green	Ivory
	Maroon
Sky Blue	Blue
Blue	Sky Blue
Antique Brown	Colonial Yellow
	Drab
Dark Brown	Canary Yellow
	Drab
Red	Ivory
	Drab
Maroon	Red
Pearl Gray	Gloss White
	Sage Green
Silver Gray	Sage Green
	Light Lead
Slate	Gloss White
	Silver Gray

UP-TO-DATE DEVICES

Signal Kettle

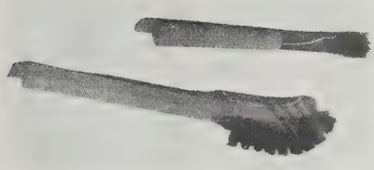


There are not many pots and pans that will call you when the food you are cooking is finished. We introduce with pride the signal kettle, which watches the time and whistles to you at the psychological moment. It is especially good for cooking eggs and fresh vegetables—things which must have just so much, and no more, cooking. After the kettle whistles you have time to walk to the kitchen and take the kettle off the stove. ($2)

Shoe Case for Travelers

Shoes in a suitcase are always a nuisance. You are afraid the soles will be a bit dirty, and soil the dresses packed beside them. Tissue paper is a good wrapping but on a long trip it wears out after constant packing and repacking! So we are delighted to find this handy shoe case for travelers, made from glazed chintz which can be washed off with a damp cloth. It carries two pairs of shoes, and can be fastened quickly and easily. It comes in a pretty pattern of chintz. ($1.75)

Copper Wire Brushes



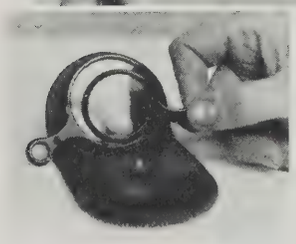
Just the thing for the sink, stubborn pots and pans, and that hard-to-get-at place in the stove where a bit of dirt lurks tantalizingly, are these brushes made of fine copper wire bristles. They poke their noses into every crevice and whisk off anything that may have become stuck and hard to remove. The handles are of well finished wood, and of a convenient shape. The flat brush is $6\frac{3}{4}$ inches long and costs 25 cents; the long one is $9\frac{3}{4}$ inches long and is 75 cents.

Screen Rain Drain

A brand new window appliance is this screen rain drain. So often walls are ruined because water, driven through the window screen during rain storms cannot escape and backs up inside. Then, of course, when the window is raised, the water may run down the wall and streak and ruin the wallpaper. This screen rain drain provides the necessary drainage, and allows the water to run out without any accumulation. It is made of copper, and is a very practical invention. It has but recently come on the market, and, the makers say, has received the endorsement of builders and architects all over the country. (10 cents)

Pocket Field Glasses

Field glasses are usually focused by mechanical means and that is why they have always been rather awkward and bulky to carry. Here is the modern field glass that you can carry in your pocket. It comes in a leather case, with two separate lenses that appear to be reading glasses. In use the small one is held close to the eye, and the large one about an arm's length away from it. You do the focusing by adjusting the large lens, either nearer or farther away. It magnifies almost six times, and weighs six ounces. ($2)



Keyless Door Lock

The new keyless door lock does away with lost, misplaced, and forgotten keys. It is an invention that stands guard over doors, opening instantly to their owners—and not at all to those who have no right! You actually are 'as safe as a bank,' for it is an application of the tumbler type combination lock, such as is used in bank vault doors and safes. It does away with the necessity of carrying a different key for every door; and moreover, one house-holder may have the same combination throughout his outside doors, closets, etc. (In various styles and sizes $5.00–$8.50)

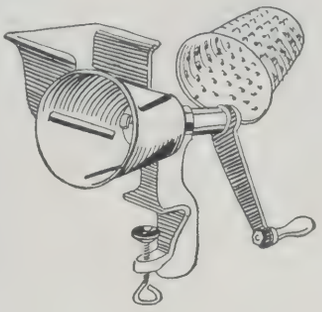
We are very glad to offer a shopping service to the readers of GARDEN & HOME BUILDER. Send your check for the article you wish to Shirley Paine (payable to her), care Doubleday,

FOR THE HOMEOWNER

Economical Oven

Something new for the housewife is this oven that will roast meat, bake potatoes, apples, custards, biscuits, and heat up left-over rolls, and saves at least 25 per cent. of the heat usually required in a large oven. The work is done on a single burner on top of your gas, oil, or electric stove; and the oven is constructed with a downward flange to prevent any of the heat escaping around the side. The rack alone makes a fine toaster. (Tin hood $1.25; with aluminum hood $2.25)

For Grating and Slicing



Do you patiently grate cheese for the rarebit and the macaroni? And roll cracker and bread crumbs for the cutlet and pudding? Don't do so any more, for we have discovered a splendid kitchen utensil which does it all for you. It also slices potatoes, apples, and cucumbers—and all with almost no effort on your part. You simply place either the grater or slicer in the machine and turn the crank. The mechanism is not complicated and there is nothing to get out of order. ($2.95)

Thermometer

Usually we think of thermometers as rather unbeautiful arrangements that hang on the wall or out by the door, but this good looking one illustrated at left sits on a desk or table, and is very ornamental. The beehive design is unusual, and it is made of metal with a verde antique finish, so that it may be used as a paper-weight too. A thermometer right before you on your desk will be a constant reminder to keep the room temperature where it should be and you will find that with proper ventilation, moisture, and cool air, you will have fewer colds than ever before. ($5.00)

Water at the Roots

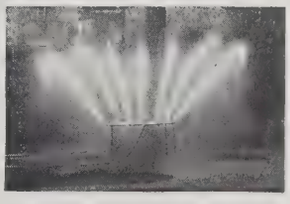
This tool makes watering at the root an easy task. The sharp spear-like end goes down into the soil, and the water delivered down at the base of the root. For fertilizing while watering it is very valuable. The flow of water is regulated by a stopcock at the handle. The standard length of tube is 2½ ft., but special tubes can be furnished at an additional cost of 50 cents. ($5.00)

Adjustable Hoe

The adjustable hoe is designed to be used as a regular field or garden hoe, a weeding hoe, scuffle hoe, turf edger, and floor scraper. It can be adjusted to any position simply by loosening the bolt. It is unusually strong, and is made for the hardest kind of service. The braces are securely riveted onto the handle, so that there is no danger of the head pulling off. The adjustable heads have serrations that interlock, so that when the bolt is tightened it is impossible for it to turn. It is really five tools in one! In three sizes: 5, 6, and 7 inch, at $1.25

Circular Tree Sprinkler

A new sprinkler, specially designed to water trees at one operation, has recently come on the market. This sprinkler throws a fine spray about 100 feet in circumference around the feeding roots of the tree, thus enabling the soil to absorb the water evenly. It is made in two semi-circles, which can be taken apart readily. Four legs support the sprinkler, enabling the operator to water trees on a slope or terrace by simply pushing the legs on the higher side farther into the ground. Four feet in diameter $25; 3 ft. $20; 2 ft. $18



Doran & Company, Inc., 244 Madison Ave., New York, and she will do the rest. If you order more than one article at a time, ***please send separate checks.*** This service is entirely without charge.

Our Garden Neighbors

Letters About Gardens and Homes From Our Readers

Growing Rubber-plants

ARE you vainly coaxing a Rubber-plant to grow? Let me tell you about my experience with one.

It stood for four or five years in the living room window of the home of a friend, and in that time, shot out about three or four puny little leaves. I grew to think that possibly ordinary Rubber-plants never grew larger than that. I should state that the windows of that room were shaded by the porch roof which, of course, limited the amount of actual sunlight reaching the plant but still allowed plenty of ordinary light to touch it. When the friend's little girl grew large enough to walk, it was considered advisable that I take the plant to my home lest she pull it over on herself. And between you and me, I'm sure the mother was glad of an excuse to get rid of it—just plain tired of being unable to coax another leaf out of it.

I took it half-heartedly and set it in my sunroom where it basked in the direct rays from the sun for many hours each day. I watered it religiously every day along with the other plants and Ferns in the room. Imagine my surprise when the Rubber-plant lived up to its name and literally seemed to stretch—it grew so quickly. In the course of a few months it shot out about a dozen large, healthy looking leaves and the stem became twice its former size. It was the marvel of everyone who had seen its stationary life in its former home. I say *was*, for in the winter Jack Frost played a trick on us, and the leaves fell off our lovely plant. I might call attention to the fact that, while all the plants were in the same room, only the Rubber-plant froze, which would indicate that it is less inured to extreme cold than the Boston Fern.

My first impulse was to throw away the apparently lifeless plant; but for some reason I kept it and continued to water it. I did not cut off the stem, as that would cause all the milk to be removed from the plant. My 'hunch' is being rewarded, for slowly but surely a little sprout is poking its way through the earth at the base of the stem and I find myself even more interested than before—wondering just what my plant will be like before the magic wand of the summer sun has completed its work.—Marie E. Rasmussen, *Detroit, Mich.*

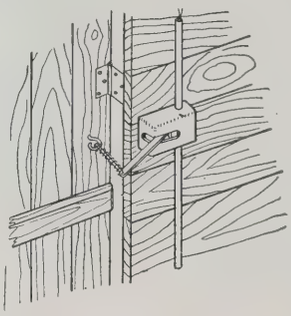


Diagram of automatic electric light arrangement for the coal bin. (See letter below)

Lighting the Coal Bin Automatically

THE cellar usually is the most poorly lighted part of any house, and the coal bin is the darkest part of the cellar. Quite a few of us will be using coal as fuel for a decade or two, new fuels notwithstanding, and we would appreciate more light on that coal pile if it can be arranged in an entirely satisfactory manner.

When the coal is kept in a room partitioned off from the rest of the cellar, the need for an individual light there is most acute. If this light is on the regular cellar circuit controlled by a snap switch, it is being lighted six months of the year unnecessarily; if it is on a separate circuit it is often left burning all night.

By the use of the arrangement shown at left these weaknesses are overcome. The house owner who arranged this light wanted it to turn on when he opened the door to the bin and to turn off when he shut the bin. To do this, he ran a line into the bin, in metal conduit, and put a knife switch near the door. Cutting a slot in the cover of the switch box, he extended the handle of the switch through it as shown.

A screw eye in the door, a rod, and a screen door spring completed the outfit. The spring pulls the switch shut and thus lights the lamp when the door is opened. The steel rod inside the spring keeps the latter in shape and it is long enough to act as a pusher and open the switch when the door is closed. The whole thing is automatic and fool proof.—Donald A. Hampson, *Middletown, N. Y.*

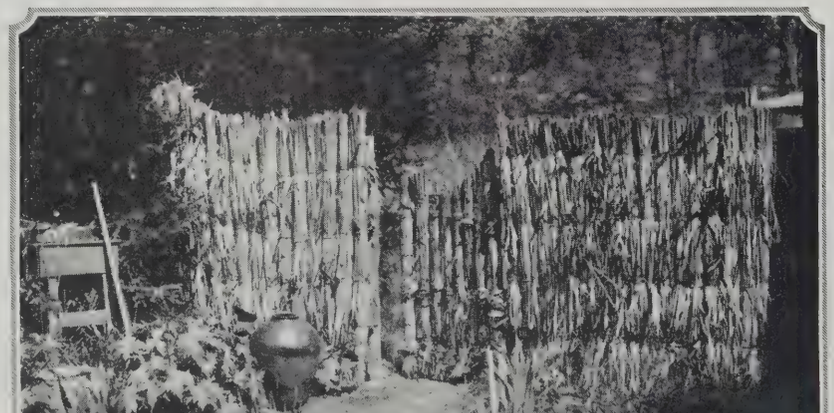
A Reed Picture-Fence

SOMETIMES when re-landscaping the gardens, after the principal enclosures are built and the carpenters have gone, there comes a need for a very short fence like the one in the illustration below, just to close a space between a Fir tree and a tool house.

Behind the foliage greens and the flowers there is nothing more pleasing to the eye than the golden-bronze and light browns in the sapling or reed fence. In the odd little nooks man can stick close to the primitive with striking effect.

The fence illustrated was made by crudely weaving small bundles of cat-o-nine-tails rushes with stout hemp cord. It was then laid up and secured with more cord to the cedar frame and gate shown. In the second year, a very light galvanized wire was used to secure it more firmly to the frame.

This fence has now stood for three years through New England snow and ice. Eventually more rushes will be woven and used in exactly the same way when renewal becomes necessary. This novel garden feature on a very beautiful place has caused more favorable comment than any other.—H. Rossiter Snyder, *Guilford, Conn.*



This picturesque effect was gained simply by weaving and binding together our common cat-o-nine-tails (described right)

THIS SATIN DAMASK *is produced in exquisite color combinations: beige, apricot and plum on a light peacock green ground; gold, slate blue and plum on an etruscan red ground*

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trician flowers rise on high d stems above a vase of purest ! Attenuated leaves trail lightly a shimmering satin back- d! A rich stripe adds dignity. e subtle blending of old and new makes this damask unusually versatile — appropriate to wholly modern ensembles or to rooms of traditional styles.

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A NEW BOOKLET, "Fabrics—the Key to Successful Decoration," giving, briefly, the history of fabrics and their importance in decorative use will be sent to you, without charge, upon request. This booklet will help you in your consultation with your decorator. It describes and illustrates the fabrics each style of decoration demands.

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To Promote the Annual Observance of National Garden Week

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OF A garden club it may in truth be said that it does not live for itself alone. Almost as soon as these clubs are organized they find themselves actively interested in some form of far-reaching civic work. The clubs in the New York State Federation organize the children of the state into tent-caterpillar warriors in order to save the trees along the highways. This organization has traveling nature libraries in schools, all the while carrying on other lines of public endeavor. Similiar activities are springing up wherever there is one of these public-minded clubs. In California, for example, there is an organization known as The Monterey Tree Growing Club that has sent us the valuable leaflets they publish from time to time. Of such interest are these that we quote from three of them that we believe hold valuable material for every club.

THE CARE OF TREES

Pruning. The time for pruning trees is in midsummer, but for heavy pruning it is better to wait for fall or winter; this will apply to roses as well, when it is the time to procure cuttings.

In an unprotected or windy situation stem or single leaders should be developed in a tree, for when one 'forks' it is likely to be split off in time.

To restore old and neglected trees remove the limbs which have died, those which have become unhealthy and the ones that distort the shape of the tree.

In every case cut close to the parent limb without leaving a stub or projection. Commence at the top of the tree and work down.

Avoid bruising the bark anywhere, but should it accidentally happen cover the wound with tar or paint, as well as every cut made.

Control of Insects and Fungous Diseases. Leaf-eating insects can usually be killed by spraying the foliage with a solution of arsenic in some form.

For 'sucking' insects, plant lice, scales, etc., use a kerosene emulsion.

Boring insects are more difficult to combat. If feasible cut off infected branches and twigs, injecting carbon bisulphide into holes and crevices.

For fungous diseases, blight, mildew, etc., spray with Bordeaux mixture.

Your druggist will give you instructions how to mix and handle insecticides; he has the data.

Towns and cities which have neglected to provide for a city forester or parking commission must do so, but in any event form a tree club.

Such an organization will encourage tree planting, accumulate literature on all subjects pertaining to plant life, their enemies, etc., and become a general source of information in arboricultural matters.

This may all be done by sending to the United States Forestry Department and our State University for their free bulletins and pamphlets pertaining to the different subjects.

The club should also undertake to propagate trees, both for the pleasure and satisfaction to be derived, and to supply trees for streets, roads, and general purposes.

Such clubs should take in hand the celebration of Arbor Day. Memorial trees should be planted, with appropriate ceremonies. This method has proved to be the most sensible and satisfactory way of observing Arbor Day. Briefly stated their plan is as follows:

Choose the name of some person or persons whom it is desired to honor, preferably one who has lived or is living in the section, and who has performed some unselfish and worthy undertaking for the benefit of the community. As a substitute, some event which you might desire to memorialize may be used.

In advance of securing trees procure large boulders to place beside the trees to be planted. Set into the boulders a tablet of marble, on which the names of the persons to be honored has been cut, also the services done by them and the dates of planting the trees.

TREE-PLANTING HINTS

For the guidance of Arbor Day enthusiasts, as well as any others who contemplate planting in this locality, Harry A. Greene has offered the following practical suggestions:

The failure of a great majority of tree-planting movements has not hindered really intelligent persons from repeating operations every year, in the same careless manner. They seem to deliberately avoid noticing the dictates of nature's laws.

In a large number of cases no consideration is given to character of soil, its depth or drainage; nor is provision made for watering.

Particularly in California, with its long dry seasons, it is folly to plant out trees unless they are to be watered whenever required.

Proper staking, pruning, and blazing of grass around the trees in summer should be provided for in the beginning.

The proper condition of transplants, as well as selecting those varieties climatically suitable, are considerations not to be overlooked.

Unless prepared to adhere to the above admonitions, better abandon your tree-planting impulse.

REPRODUCTION OF PLANT LIFE IS EXPLAINED

Home gardeners, generally, are lacking in botanical knowledge but there are some of its secrets which would be advantageous for them to understand.

A glimpse into the story of how plants (including shrubs and trees) reproduce, is the object of this sketch. It is but an attempt to convey to the reader a little understanding of a very extensive and complicated subject.

CLASS 1.—A majority of plants produce both sex organs within their individual blossoms.

CLASS 2.—A much lesser number produce either male or female flowers on separate twigs instead of in the same blossom.

CLASS 3.—Other plants are distinctly male or female, one producing pollen dust only, the other bearing the pistillate flowers and organs to develop seed.

CLASS 4.—Then, strangely enough, we find plants bearing both male and female parts as in Class 2, but also, occasional individuals, bearing male or female organs separately as in Class 3.

When you come across a willow in blossom you can easily detect whether it is a male or female tree. The catkin, with its yellow dust (pollen) grows only on male trees.

The female tree produces smaller flowers with tube-like projections without "dust." Pollen is carried to the female flowers by wind and insects.

We find those who think that by grafting or budding, cross varieties are produced, which is of course, impossible. Hybridizing is a worthy legitimate art. Practice it and you will derive much pleasure and satisfaction provided you obey the laws of Nature.

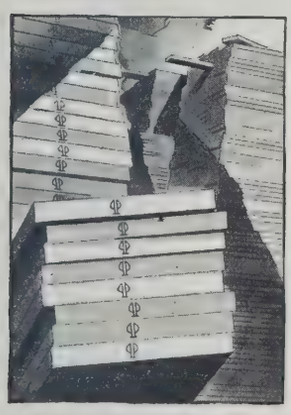
September begins the fall Flower Show season, around which the activities of many garden clubs are centered. The big show of the American Dahlia Society is in New York, Sept. 26 and 27. And too much cannot be said in praise of such endeavors, for their effects are felt not only upon the community as a whole, but upon the individual as well. Of interest to all eastern Dahlia growers is the following notice of the Short Hills, N. J., Dahlia Show.

> The Short Hills Garden Club will hold its twentieth annual Dahlia Show at the Short Hills Club, directly opposite the station, on Friday and Saturday, Sept. 28th and 29th.
>
> All amateurs are invited to compete, and special classes are arranged for those who have no trained gardener. These shows are noted for the artistic manner in which they have been staged, and the classes for flower arrangements disclose unusual taste and ingenuity among the exhibitors.
>
> Miss H. Ruena Craig is the chairman of the show and Mrs. S. Bryan Kneass, is head of the Classification Committee. Schedules may be had on request from Mrs. S. Bryan Kneass, Short Hills, New Jersey.

For free constitutions and by-laws and programs, address The National Garden Association Garden City, N. Y.

ELLEN D. WANGNER, *Secretary*

This pine tree makes you an expert judge of good lumber



From carefully selected trees from the forests of the Northwest—cut, seasoned and graded right—this lumber is available at the better lumber yards the country over.

PINE lumber, one of the most important materials that goes into the building of a home, has come out of the shadowland of the indefinite and questionable to take its place among the certain and known products of industry.

Builders and architects have always known the greater value of even-grained, well-seasoned, rigidly graded pine. Architects have specified it. Builders have bought it when they could, relying on their own ability to pick it by appearance and price. There was no other way to tell. The home owner, wanting the best and willing to pay for it, wisely kept out of something he knew nothing about.

Now, through the invention of a machine by which the pine tree mark is imprinted on Pondosa, this good wood comes to market so clearly identified that anyone can be an expert buyer of good lumber.

Through this pine tree mark Pondosa Pine takes its place as reliable merchandise beside trade-marked and advertised hardware; electric fixtures marked with names that mean responsibility; plumbing fixtures on which world-known names appear; heating plants, the names of which are guarantees of quality.

For sheathing, siding, window frames, sash and doors, for all interior and exterior finish and trim—for all work where a light, even-grained durable wood is wanted, buy Pondosa Pine by the mark of the pine tree from your retail lumber dealer. Western Pine Manufacturers Association of Portland, Oregon.

On the doorway's snug fit depends much of the charm of the front entrance. Doors and sash of Pondosa Pine will stay straight and true against all time and weather.

Pondosa Pine

The Pick o' the Pines

YOUR GARDEN IN SEPTEMBER

T. A. WESTON

In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day; thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind; Quincy, Ill., Denver, Colo.

ALMOST before we realize it fall will be with us and the first frost will be laying low the more tender subjects. If there is any 'fly in the ointment' for the real gardener at this time, it is the shortening hours of daylight, which reduce one's opportunities for work. Many slacken up their garden operations from the time really hot weather starts until clearing up for bulb planting is on the schedule. These notes are not meant for such seasonal gardeners. The current season has not been an ideal one in this region; rain has been always around the corner and the amount of heat served out to us has been much below the normal, so as a whole, the home gardener has not had his full measure of satisfaction unless for the fact that watering rarely was necessary. But on the other hand there was a surfeit of weeding.

A Homily on Weeds

I am never happier than when working with a hoe, but in a wet season hoeing must be supplemented by hand weeding, Most of my ground was, until several years ago, woodland. When I came along and removed the undergrowth and some of the trees, and broke up the ground, seeds that had long lain dormant responded to the light and air. In the normally dry years it was a simple matter by regular hoeing to keep down the constantly germinating crops of weed seeds, but last year (and more so this year), it was wasted labor to hoe unless one gathered up the weeds right away. Judging by one book I have read—it is by a woman for women—the use of a hoe in the border never occurs to some people. At least the book in question advises going around in August when the soil is moist, pulling out the great weeds as then they come out more easily than earlier in the season. That is bad advice for, in the first place, weeds that are allowed to grow to full size rob the soil of food and moisture, and secondly, if one allows them to reach full size, they will seed themselves and so ensure a heavier crop the following year. The real gardener never will allow weeds to seed themselves.

What to Do in the Flower Garden

September is a weedy month and the pestilential Chickweed, particularly, is quite equal to producing a crop of seed before cold weather sets in; indeed nothing but extreme drought and severe frost will check it. Aside from its smothering action this weed is a harbor for red spider and as such is a real pest.

If this mouth should prove dry, see to it that the lawns, beds and particularly the evergreens, do not suffer. Evergreens are liable to severe winter injury if they lack water when cold weather arrives. Should it prove dry, spray against aphis, a pest that is always active until cold weather stops it. By regular spraying one not only prevents damage but also checks the laying of eggs.

To prepare for winter, overhaul and paint the frames and sash. The perennial seedlings that are to be carried over the winter in beds or frames should be set in position so that they may take hold firmly. Small stock that has not made much progress should especially be put into frames. Propagation, too, is a job that should be carried on this month and if you want to increase such subjects as Pinks, Arabis, Aubrietia, Arenaria, Saponaria, etc., plants that were cut back earlier in the season can now be divided or pieces may be inserted as cuttings. Given frame protection and shaded with slats, such things will soon take hold and be in fine shape for planting out by next spring.

Propagate Violas. The young shoots in the centre can be pulled out and the bases being blanched, will soon root if not already rooted. Shade heavily but do not cover with sash. The cuttings can be put in about 2 in. apart and either left for the winter or shifted wider apart as soon as rooted. Viola cuttings may be put in right up to November and the cooler the weather the better they root though the latest batch of course makes no great show until June or later. For propagating, the soil should be light and sandy, some peat moss being a useful addition. Rambler Rose cuttings 12 inches long put in now will make useful plants in two seasons. If you have not cut out the old flowering wood of your Ramblers do so now and use some of the smaller branchlets as cuttings.

Dahlias and Irises; Bulbs

The Dahlias will need constant attention now both as to tying and disbudding; remove regularly needless shoots as they grow at an amazing pace at this time. Irises that have stood several years, ought to be lifted, and the best pieces replanted. For preference, plant in new positions but if you have to use the same places, dig over well, add a little bone meal and give a good sprinkling of lime. Do not plant deeply. If you want to extend your collection, buy now.

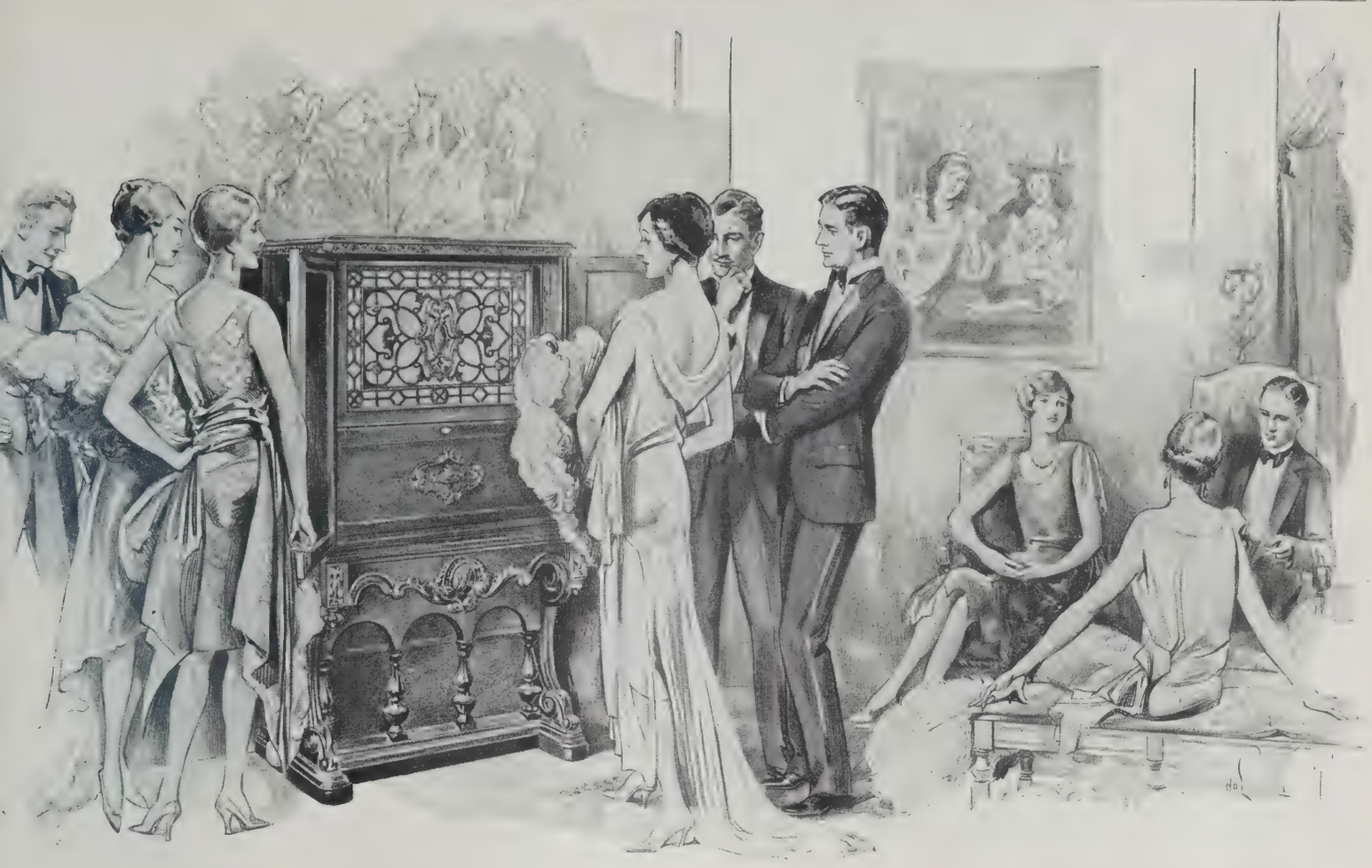
Place your bulb order; Daffodils and Paperwhite Narcissus will soon be arriving and being grown at home are available earlier than when they used to be imported. The sooner they are planted the better.

Sowing Seeds

Now is a good time to sow seeds of the rarer kinds of perennials including Primroses, Campanulas, Iceland Poppies, etc. If they germinate before winter they will be safe in a well covered frame. Sown now there is less tendency to damp off and the slow germinators are likely to come up early in the spring and be big enough to prick out before the dog days. The great bugbear of spring sowing with such seeds is that they are apt to start germinating in June or July when the humidity is great; and try as one may, one cannot hold off the damping plague. Sterilize all the soil with boiling water or partial baking; use clean pots; sow in September and as soon as a few seedlings appear, lift with a matchwood and put into another pot of soil. Water by standing the pots in a pan of water, spraying overhead only with Semesan liquid. Beware of letting a pot get the least bit dry; plunging in damp peat moss is helpful, and keep absolutely dark. Watch closely for the tiny sprouts and just as soon as the little plants can be trusted out of pots, plant into beds of nice light soil and keep in a well ventilated but shaded frame.

Sowing Lawn Grass

This is a good month for making a lawn and if the ground has been well dug and is free from weed seed, sow the grass seed at the first opportunity. If there is evidence that the land is foul with Plantain and similar weed seeds, don't waste time and seed trying to make a lawn. Such ground ought, to be allowed to stand vacant, after digging, being hoed over from time to time until certain that all the weed seeds near the surface have germinated. Making new borders, rock gardens and so forth. The more such work can be hastened in the fall, the less one has to do in the spring. As a rule the spring is too much relied upon as the planting season, but actually, early fall is infinitely better for the planting of evergreens and most perennials, and some shrubs.



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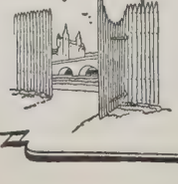

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Your Garden on the Pacific

ELIZABETH URQUHART

THIS month is a preparation for the early rains and for the second California springtime, when the grass comes up again after the summer sleep, and the gardens renew their earlier activity. Clear away all rubbish, prunings and faded blooms, and after digging and spading the beds, leave the soil in a loose, rather rough condition, so that the rains may penetrate easily and quickly and the ground once more be filled with moisture.

Seeds and Seedlings

Seedlings already started earlier in the summer should be thinned out and transplanted into larger boxes and set out later where they are to grow. Seeds may be sown now of Columbine, Larkspur, Gaillardia, Cineraria, Hollyhock, and Coreopsis. It is better, however, to increase the Hollyhocks from cuttings taken from the new shoots around the base of the plants, as this insures exact reproduction of color, sow especially Sweet-peas for winter and early spring bloom. The early flowering varieties are best for Southern California and the interior sections, as they will bloom before the dry heat of summer. Along the coast, however, use the summer blooming varieties which may be sown as late as March and will bloom all through the cool summers. Sow in the open ground in a deeply dug trench which has been fertilized with old manure or bone meal, as Sweet-peas require much food and water, and the food must be replaced in the soil.

In Southern California, Petunia, Nemesia, and Lobelia may be sown now; and wherever Cyclamen grows out of doors, the young plants may be set out now in a cool, shady location, in a light soil chiefly of leaf mold. Virginia Stock may be sown now or indeed at any time of the year for succession of bloom, and sow also Phacelia (Campanularia) for the rock garden. It is related to the Nemophila (Baby Blue Eyes), and has the same family eyes.

Watsonias and other bulbs

Watsonias and Bride Gladiolus should be planted this month, as the Watsonias do not keep well in storage. Plant them in groups, or at the back of borders, with the Bride Gladiolus in front, and separate every two or three years. Do not delay putting in Freesia bulbs for winter blooming. Plant the new rainbow varieties as well as the white. Callas may also be planted now in sun or shade, but will respond to generous watering.

Chrysanthemums

Look to the Chrysanthemums, giving liquid manure and plenty of water. They must also be disbudded, removing the superfluous side buds, and where there is a group, all but the terminal bud, unless quantity rather than size be wanted. If the green diabroticas begin to infest the plants, they will eat the buds and spoil the appearance of the blossoms; they must be caught in the early morning and dropped into cans of kerosene.

Cuttings

Make cuttings now of Cotoneaster, Daphne, Myrtle, Rhododendron, Barberry, Camellia, Veronica, and Japanese Privet. In planting Barberry, select the B. darwini or B. wilsonae rather than the common vulgaris, as that is the host plant for the wheat black rust, and should never be planted in regions where wheat is grown. Cuttings may also be made of Heliotrope, Petunia, Carnation, Pelargonium, Pentstemon and, Rose.

Spring Bulbs

You can begin planting spring bulbs of the Narcissus family, also the Dutch, Spanish, and English Irises. If the European Iris has not already been moved or set out, do not delay any longer. Plant Crocus bulbs in pots for the house or on the lawn for winter blooming, and if Narcissus polyanthus is started now as a house plant, it will bloom by Christmas. Bulbs grown in water in the house should be kept in a dark place until root growth begins. Do not wait any longer to move the Amaryllis, as delay will interfere with next year's blooming. If the rains are late do not neglect watering the garden, particularly the Roses which will soon be ready for autumn blooming.

Your Garden in the South

ETHEL HUTSON

IF AUGUST has not been spent in cleaning away all overgrown and rank foliage, plants past their prime, and dead wood on Roses and other shrubs, the first two weeks of September must take care of this work, and then the real work of planning the year's round of flowers must be taken up, for here in the Far South, September is the beginning of the Garden Year.

Seeds to Sow

By the middle of the month seeds of almost all the annuals may be planted, and shortly afterwards trees and shrubs may be moved or set out. Consider well, then, just what plants will be in bloom in the fall, winter, spring, and summer. Also what color scheme is wanted for each. Has the house good foundation planting? Does the base seem 'clothed,' or are its knees bare and naked? Do all the corners stand out gaunt and unadorned, the recesses look empty and forbidding? Or does the view from the street give that satisfying feeling that the house and garden belong together? Stand in the doorway or on the porch and look at the garden from every angle and consider what garden repairs are to be made. Trees may be planted; those already in the yard may be trimmed up to allow more sunlight for shrubs and annuals beneath; arbors, trellises, and summer-houses may be added; a bench, bird bath, or sundial put in; and a permanent background (*continued on page 650*)

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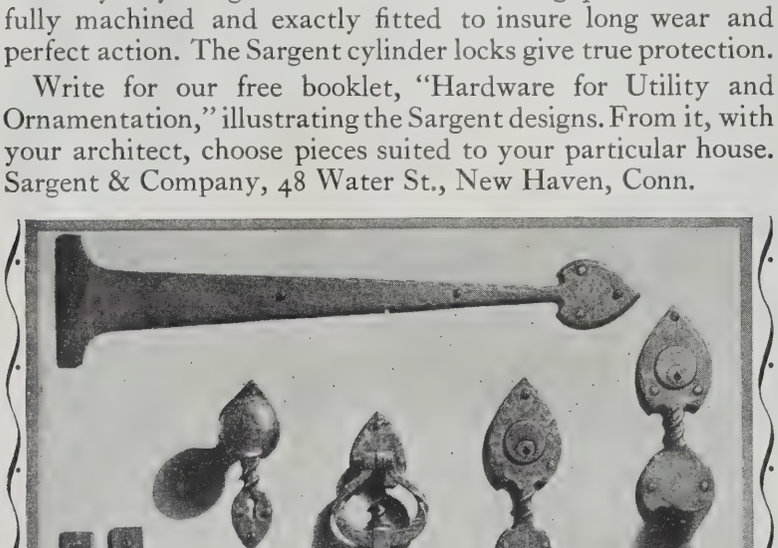

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SARGENT
LOCKS AND HARDWARE

Your Garden in the South

Continued from page 646

planting designed to shut out the view beyond and make the garden seem more intimate.

List these changes carefully and number them in the order in which they may be worked out. Remember that it will be useless to plant unless the ground is thoroughly worked and manured, rid of weeds and grass, adding sand and woodloam to lighten the soil if rich in clay.

Spraying and Trimming

Spray thoroughly everything in the garden so there will be no loss from insects and disease; but in order to have as small an amount of spraying to do as possible, first trim back and burn, or bury in the muck-heap, every branch and twig not wanted. Spring-flowering shrubs like Spirea, Deutzia, and Philadelphus should have suckers trimmed off and some of the old canes cut out, but they should never be 'top trimmed' as it is the second year growth that makes the flowers and top trimming ruins the long, graceful, wands of blossoms. Buddleia, Althea, Crepe Myrtle, and Lantana, on the other hand, bloom from new growth and the plants can well be cut back to the main stock, to force healthy, new growth for next spring's flowers. Much of the old growth on vines can be gotten rid of, so the spray may do its work thoroughly, for many insects winter in vines and dense growth in shrubbery. A small hand sprayer, used on special plants for special insects, a little sulphur dusted on Roses late in the evening for mildew, lime and arsenate of lead sifted over the Pansies or Violets to kill caterpillars, are quite different from spraying right and left, up and down, front and back, for aphis, scale, red spider, leaf-eaters and leaf-suckers, any and all enemies of plant life in the garden which is best done by professional workers. Of course this thorough spraying does not mean that there will be no insects in the garden next spring, for some get by, and some come from the surrounding country, but there will certainly be fewer.

Care of Perennials

It is too early to put in or move trees and shrubs, but make room for them and do the deep spading for them now, so the perennials and annuals will be as little disturbed as possible when these larger plants are set. Go over all the perennials, making cuttings from the suckers around the base of Hollyhocks. Petunias in porch boxes or on the sheltered side of the house are perennials in the Far South and come back year after year, so take slips or cuttings from them for next year's beds. These cuttings must be kept wet until well rooted. Separate Golden Glow, if it has finished blooming, and break up the clumps of the sky-blue Salvia that bloomed in the spring; the purple Salvia blooms best in the fall, so should no be divided until early spring. Cutting may be taken, now, though. Seeds fo Stock, Digitalis, Dahlia, Delphinium Campanula, Aquilegia, the flower mentioned above, and many othe perennials can be planted after the mid dle of September, using seed flats o beds protected from driving rains.

Bulbs

It is too early for most bulbs, bu Easter (Lilium longiflorum) and Calla may be started now for Easter bloom Plant in rich earth, being careful tha there is no fresh manure present to ro the bulbs. Callas do best on the side a ditch where they get plenty of moi ture. Iris may also be moved now. The should be divided about every thir year, and given a new bed.

Annuals

Almost all the annuals recommende in the catalogs for April planting els where may go in by the fifteenth o September. Sweet-peas, planted no and given a rich, light soil and plent of water in a sunny location, will bloo in March, and if the early or winte blooming varieties are used, one may e pect flowers before Christmas. Lupin planted in pots, three or four seeds to pot, then thinned to one plant, w stand a better chance in transplantin than seedlings started in a flat, becau Lupins have long tap roots which a easily broken when moving. The p grown ones may be tapped from th pots without loosening the earth damage to the root. Pansies 'damp-o easily here, but can be started in see flats, protected from heavy rain Larkspurs, both the old-fashioned sing ones and the double ones, do remar ably well planted broadcast in th open in the early fall, and bloom fro January until June. Phlox, Poppie Sweet Alyssum, Marigolds, Dianthu Candytuft, Crimson Flax, Forget-m not, Verbena, and many others go righ on blooming even after a heavy fros and should all go in now just where the are wanted to bloom. No need to sta them in flats. Nasturtiums planted September often bloom before Chris mas and if there is a warm January, w continue to bloom until the bad weath in February.

Fruit Trees and Vegetables

Old fruit left on the trees and vin will cause brown rot the next year, an should therefore be removed while th fall cleaning of the garden is in progres In the vegetable garden, as in the flow garden, September is the beginning the year; the old crops must be remove diseased plants burned, old leaves an vines buried, and the ground plowed deeply spaded and manured. Then a the spring vegetables may be planted Prepare beds for Strawberry plantin next month.

House shown is from "Home of Beauty" design 102

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The Ponsell Electric Floor Machine brings you five important benefits.

First, it removes from a wood floor all the old wax, hardened dirt and varnish. Once more you see the lovely surface of the wood itself.

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FOR FOUR GENERATIONS BUILDERS OF GREENHOUSES

A Garden Only Five Months Old

Continued from page 609

gay with a sequence of bloom in blue, yellow and white. Columbines, Lupins, Veronica spicata, Lemon Daylily and Phlox Miss Lingard, followed by Larkspur, Coreopsis and Shasta Daisy and Bellflower, with a new note of lavender and pink Phlox. Groups of Zinnias in separate colors were scattered through the borders at intervals, their rich orange, salmon-pink, and garnet gave an added warmth to the late season. Tall groups of blood-red Helenium rubrum stood at the four corners, while in between lay clusters of Eupatorium and Heliotrope and high above these the clear light blue flowers of Aster Clima were silhouetted against the dark gree foliage of Artemesia lactiflora, which hel aloft its sprays of creamy white flowers Blue and gold were the key colors in th plan with touches of the brighter hues o autumn. All about the flowers, the Appl trees stand guard with their dark shinin foliage and their gold and red cheeke fruit.

An old gray stone wall belonging to th original homestead bounds the far end o the garden with a planting of Scotch an Austrian Pines between wall and garden blending perfectly with the native Cedars

Making Your Own Curtains

Continued from page 606

curtains on the rod and screw the rods into the sockets. Thread the cord first through one side of the double pulley, then through all rings on one curtain, attaching or tying it to the first ring on the far group, pass through the remaining rings and through the single pulley, through the rings again, attaching cord to the first ring of the far group on the return. Then continue through the remaining rings through the second wheel of the double pulley and attach tassel or drops to both ends of cord. During the threading hold th cord taut to insure an even distribu tion of the folds. The cords should b tied so that one will be about a foo longer than the other. When open o closed the shorter cord is the one t pull in order to change the adjust ment.

If the diagram on page 605 is studie carefully, the making and mounting o the draw curtain will become a simpl matter for the inexperienced curtai maker.

Plastic Paint and Wall Decoration

Continued from page 627

textured walls, with woodwork painted in a deeper shade of the same color will be found a delightful and inviting background for the bright chintzes, mahogany furniture, and hooked rugs of the Colonial period.

Perhaps nothing, not even the architecture of the house itself, expresses so completely the atmosphere of Spain in the interior of Spanish inspiration, as does the textured wall finish. A smoothly floated undulating plastic surface is most satisfactorily used, left bare except for an occasional accent of richness in the form of a hanging of crimson brocade, lacy candelabra of wrought iron, or a richly carved piece of antique furniture placed at certain strategic points.

At present a wave of interest in the modern movement is sweeping the country. This movement is marked by an extreme simplicity, by a geometric feeling in design resulting in a predominance of straight lines and angles and an emphasis on structure rather than ornament. While in Germany the modern movement is marked by strong color and brilliant contrasts, in France we find subtle half tones, neutral gradations, and the extensive use of beige and silver tones in decoration. The moderns have taught us much, not only about the elimination of the superfluous and the scientific use of color, but about the natural beauty which lies in the veining of marbles, the grains of woods, the markings of pelts and reptile skins and in artificial compounds such a lacquers and plastic paints. Such com pounds are products of the demands and ingenuity of our particular age and it i but natural that they should be particu larly applicable to our needs. Plasti paint which gives texture, feeling, ligh and shade to the plain wall surface i particularly suited to relieve with a little vibration and subtlety of patter the severe lines of the modern interio and furniture on cubistic lines. Plasti paint glazed or self-colored in citro yellow, nile green, peach, pomegranat or cream offers enticing possibilities t the woman who seeks adventure i home decoration.

Not everyone can build a new house or buy one, but everyone can remode from time to time. In remodelling wit plastic paint there lies true satisfaction Superfluous wood trim can be ripped out and plastic paint, which will cove a variety of different materials with a uniform surface, can be applied to giv a warm living atmosphere.

Plastic paint is an important in gredient in the recipe of making ou houses more invitingly homelike. What ever the decorating problem on one' hands it should be remembered tha the wall is a good place from which t start operations, and that a wall wit a beautiful surface will give value t everything one has—draperies, picture the furniture itself.

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(Lilium Candidum)

THE favorite Lily of the old-fashioned garden produces strong, stiff stems, studded with a mass of pure, glistening white flowers that enliven the perennial Flower garden, or, for contrast with the beautiful green shrubs of the June garden, are unequalled.

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Our bulbs of this splendid Lily are grown in northern France, and are the true thick-petaled variety, which is much superior in habit and flowering qualities to that of the southern-grown bulbs.

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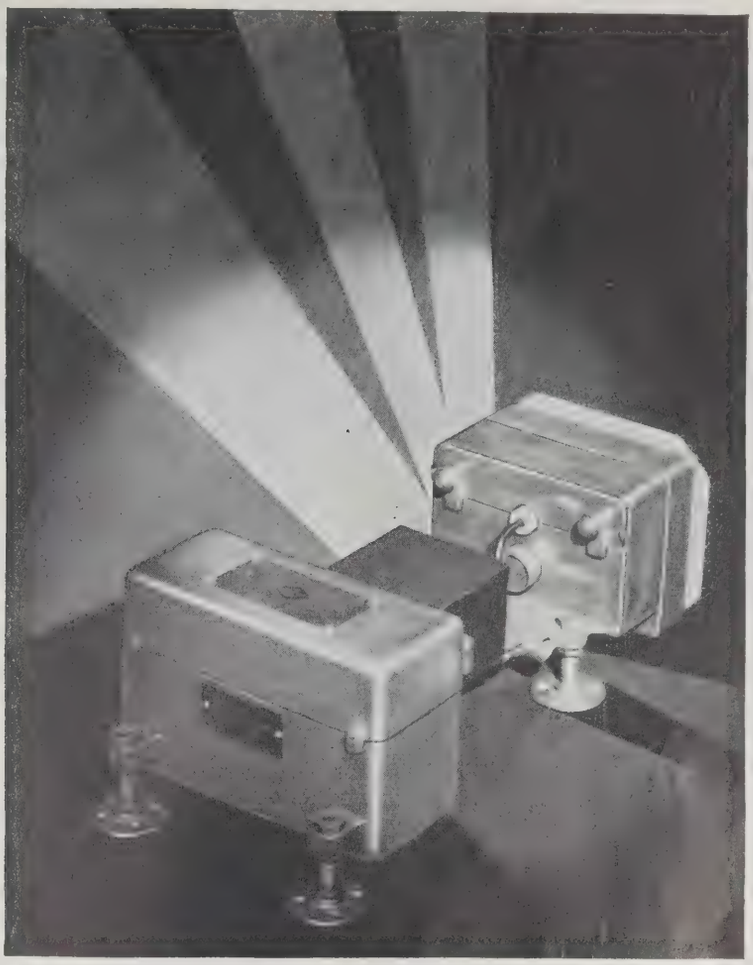

Caloroil, The Life time Burner, only one of the Caloroil line of domestic oil burners.

Not the House to the Oil Burner

THOUSANDS of home owners have put off buying oil burners year after year because out of the fog of conversation which salesmen threw up they learned one vital point:

There were no lines of oil burners. Each manufacturer aimed to sell his individual burner both to the small cottage and the great mansion.

Common sense told the purchaser that no single oil burner could possibly give superior and economical service under such widely varied conditions. So he has been waiting for the day when a manufacturer would be prepared to install any one of several different types and sizes. In short, for the day when the oil burner would be fitted to the house, not the house to the burner.

The Caloroil Burner Corporation announces as its basic service policy the fact that its sales efforts will not be devoted to selling a specific oil burner, but on installing the right burner for a specific home.

If you are interested in heating your home with oil, look over the Caloroil line. You will find the right burner for your needs.

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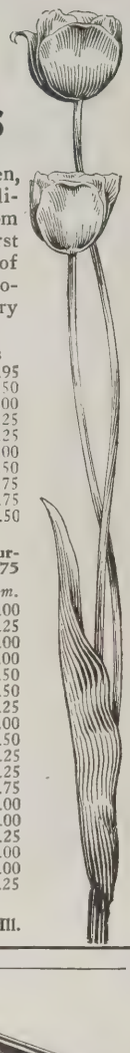

If you want a beautiful springtime garden, plant bulbs this fall. Shumway's "Pedigreed" Bulbs are imported direct from Holland; guaranteed largest sizes, first quality. You can't fail to produce tulips of gorgeous beauty. Make your selections today at our new low prices. Delivery charges prepaid.

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100 Darwin Tulips	17 Varieties		$ 2.95
100 Breeder Tulips	15	"	3.50
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100 Crocus (1¾"—2" dia.)	5	"	3.75
100 Narcissi, U. S. Grown	5	"	8.50

50 Bulbs at the 100 rate.

Extra Special—12 Louis XIV Breeder Tulips, Purple, Gold Margin, $1.10; fifty for $4.00; 100 for $7.75

All varieties grow 2 to 3 feet tall. Giant Bloom.

100 Princess Elizabeth	Rose Pink	$ 4.00
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1500 bulbs—100 of each		55.00
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Free Catalog—Our new catalog, in full colors, pictures a great variety of Tulips, Narcissi, Hyacinths, Crocus, Peonies, Lilies, etc. A helpful guide to gardening free. WRITE TODAY.

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TULIPS

Holland's finest and rarest, now available. Darwin Tulips, Cottage or May-flowering Tulips Builder Tulips, Parrot Tulips, Single early, Double early, etc. from 30 cents to $2.50 per doz., from $3.50 to $6.00 per 100, also our special Introductory Collection of *100* extra fine mixed *Darwin Tulips*, all first class bulbs, for *$2.50 postpaid.*

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6 for $1.25 Postpaid

Long flowering, hardy phlox, grown by Pfeiffer at Winona are prize-winners. Choice colors, a wonderful bargain. Also complete line of rarest varieties at 35 cents each to the popular famous varieties, showiest colors at 25 cents each or $2.00 per doz.

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Selection No. 5

In this group we are offering an unusual opportunity to our customers by allowing them to select *any six* of the following high class varieties *for only $10.00, Postpaid.*

Eugene Verdier	$2.00
Francis Willard	2.50
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Jubilee	3.50
Lady Alexandra Duff	4.00
Longfellow	3.00
Marie Crousse	2.00
Mme. Jules Dessert	4.00
Mary Brand	3.00
Milton Hill	2.50
Primevere	3.50
Reine Hortense	2.00
Sarah Bernhardt	2.00

Many other varieties ranging in price from 50c to $50.00 each.

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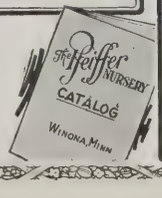

The Persisting Colonial

Continued from page 614

Each of the three large rooms found to-day has a whale of a fireplace. The flue of one of these is modernly chosen for the use of the furnace and hence must be walled up.

Upstairs are two large bedrooms, balanced on center. From each of these, one enters a very small room, partly over the kitchen, under the slope of the roof. These are used to-day as dressing and bath rooms. An attic is reached from a steep stair or ladder in an unfinished passage in the rear of the great chimney. 'Great' means extra large indeed, for some of these chimneys measure as much as twelve feet square at the base. Simple, satisfying; and what is a home if it is not built to gather warmth and hospitality round a great chimney-piece?

Plan number two came later, as the colonists progressed in wealth. This was the larger, two-chimney, eight-room, eight-fireplace, center-hall house. This pattern is exceedingly popular to-day.

The portico is usually a gem of delicate design. Standing at the front door, one may look through the great hall and out the rear door to the sunshine dancing in the Apple trees. The main staircase runs straight up to the second floor, but is highly decorative in its hand-rail and stair-rails, not to mention exquisite panelling in the wells. Somehow there is the living presence of the great out-of-doors in these halls, when the doors are open at both ends. Folks have been known to dance relay races through their length at the old-fashioned 'Independence Ball.'

On one side of the hall we find the living room; on the other, the dining room. Behind the living room is the library; behind the dining room, the kitchen. Between the front and back rooms, on both sides, are excellent closets, pantries and so on, necessitated in utilizing the space left in partitions by the two chimneys.

Often also there is an ell in the rear of the house, permitting extensive reassortment of room-purpose from the original colonist plan. It is probable that in some cases these ells were built before the main house and served as a complete dwelling for many years.

Upstairs, as might be expected in this well balanced design, we find four good bedrooms, hall and bath.

Straw and brick, clay, shell, or lime were often used to line the walls; crude as compared to our modern heat insulations.

To the architect who knows, you may merely say, 'I want a New England Colonial.' He will ask, 'One chimney or two?' When you tell him which, you may know in advance what his renderings will look like.

One can travel from northern Maine to northern Maryland and beyond, and find that these two types, as illustrated in the photographs and floor plans, monopolize the field of earlier Colonial architecture. Like Shakespeare they have survived in the esteem of Americans and, just as Sothern and Marlowe have staged their frequent returns of the bard, so our younger architectural set now works upon the return of these early types of dwelling which still satisfy some deep instinct for beauty and comfort.

Winners Among the Peonies

THE American Peony Society came East this year for its annual exhibition and joined forces with the Massachusetts Horticultural Society June 22–24 in Boston. The weather had not been propitious for really superlative blooms. The time was right, but flowers were only of average size. The outstanding exhibit, so far as marking progress in the Peony is concerned, was that of Prof. A. P. Saunders of Clinton, N. Y., who was for many years the Peony Society's efficient secretary in its formative period. He has been hybridizing and fairly startled us with a flower of a yellow Tree Peony, named Argosy, which won for him the Garden & Home Builder Achievement Medal as well as the silver medal of the society. He had other hybrids—a strain of crosses of the species lobata with the ordinary sinensis varieties; also some officinalis-sinensis crosses. The result of the lobata-sinensis is a lot of singles of large size rich rose-pink, lustrous with a conspicuous center cluster of stamens. The President's Cup for the most meritorious exhibit in the whole show was awarded to Dean Saunders. One display of cut blooms reached Boston, Mass., from Seattle, Wash, by air mail. Cherry Hill Nurseries, as was to be expected, made a very large contribution to the display of cut blooms, featuring many of their own excellent introductions. But Harry F. Little was the most consistent prize winner in a majority of the cut bloom classes. Of new seedlings Lt. Col. Guppey's glowing, almost cherry red double (14-13) was arresting indeed and we shall hear more of it for the luminous brilliancy of its color. Sherbrook record (Norton), apple blossom pink double, it seems to me also has a place. A. H. Fewkes had a notable white in Priscilla Alden.

It is interesting to know the varieties that won the honors, for these same Peonies are likely to be winners for other growers:

Ten doubles; Souvenir de Louise Bigout, Rose Shaylor, Judge Berry, Frankie Curtis, Brand's Magnificent, June Day, Lady Alexander Duff, Le Cygne. *White or Cream:* Le Cygne, Solange. *Light pink or pink and cream:* Lady Alexander Duff. *Dark pink:* M. Jules Elie. *Red or crimson:* M. Martin Cahuzac, Cherry Hill.

Among other winners were Therese, M. E. Lemoine, Kukeny Ashi (Japanese).

Taking a general impression of the exhibits, outstanding varieties were Le Cygne, Therese, Frankie Curtis, Souvenir de Louis Bigout. Some of Mr. Little's best: Frankie Curtis, Francis Willard, Duchesse de Nemours, Jubilee, Souvenir de Louis Bigout, Mrs. Charles Gilbert, Paradise, M. Jules Elie.—L. B

Have you enough outlets for comfort? ...can you make toast at your table?

Plan your wiring when you plan your house

It doesn't make any difference whether you're building a new house or remodeling an old one—wiring should be one of the fundamentals that take your first thought. Consider each room as it will be when you live in it. Take your dining room, as an example.

There should be outlets for your toaster, your percolator, your chafing-dish. There should be an outlet for your vacuum cleaner or your electric fan. There should be a switch at the door. These small things make your home truly comfortable—and they add so trifling an amount to its cost.

The General Electric Wiring System [the completely planned wiring arrangement] takes care of all these details for you. It gives you enough outlets to use electricity to the limit of its helpfulness. And all its materials, inside your walls and out, are made for *lasting* service by General Electric.

Send for a copy of this helpful booklet

Merchandise Department
Section 19
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GE WIRING SYSTEM

—for lifetime service

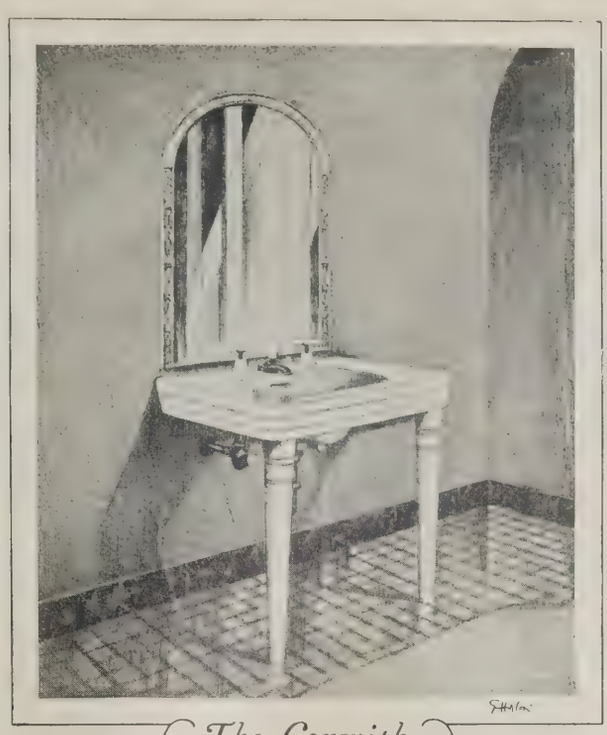
GENERAL ELECTRIC

MODERN FLOORS OF AUTHENTIC DESIGN BY SLOANE

Linoleums continue to gain in popularity as decorative floor-coverings. In the room shown above a W. & J. Sloane Linoleum simulating mortared tile combines attractively with bright summer furnishings to make a sun-room of charm and good taste. The new linoleums by Sloane represent a distinct advance both in coloring and design. They are sold by leading stores everywhere. W. & J. Sloane Manufacturing Company, Trenton, New Jersey.

W & J SLOANE LINOLEUM

Note: *Would you like an attractive scrap-book in which to preserve ideas and plans for your home? This 100 page book, size 11" by 14", bound in blue cloth, stamped in silver, value $2.50. will be sent to home-planners, together with suggestions on interio. decoration by W. & J. Sloane, on receipt of $1.00 to cover postage and handling. Address Advertising Department, W. & J. Sloane, 577 Fifth Avenue, New York City.*



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A triumph for simplicity is the new *Corwith* lavatory. Chaste sculptural line, an unostentatious set-back in the slab, a rectangular bowl; the deftest of differences have given it originality without a hint of freakishness. Other pieces, a bath, a dressing table, a combination lavatory and dressing table, also may be had in the *Corwith* design. For beautiful fixtures in charming settings, send for the Crane book, *New Ideas for Bathrooms*, full of information on decoration and arrangement. About installation, consult any responsible contractor.

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May we send you the full particulars?

Cut away section shows coil above fire pot—there's no chilling of fire from cold water.

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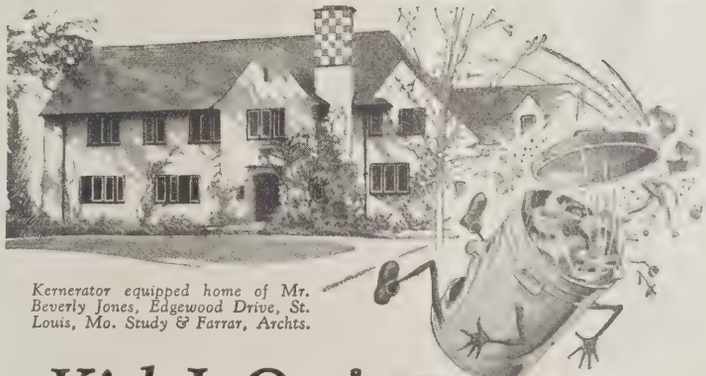

Kernerator equipped home of Mr. Beverly Jones, Edgewood Drive, St. Louis, Mo. Study & Farrar, Archts.

Kick It Out!

THE *filthy garbage can* — out with it forever! Do it *now*—when it costs the least—*now* when the plans are being drawn for your new home. Only rarely can the Kernerator be installed after the building is erected, and even then, not as reasonably as when specified.

Off your driveway with the sickening garbage wagon — with its following of mongrels! Off your lawn with the refuse strewn by cats and dogs! Out of your basement with the space-taking rubbish pile—cause of 75% of residence fires! Off your list of daily chores, those tiresome trips to the garbage can that always seems filled to overflowing!

All garbage and waste, dropped into the handy hopper doors, falls to the combustion chamber in the basement where it is air-dried without odor. An occasional match burns it and the flames sterilize non-combustibles for removal with the ashes. Write for free booklet, "The Sanitary Elimination of Garbage and Household Waste."

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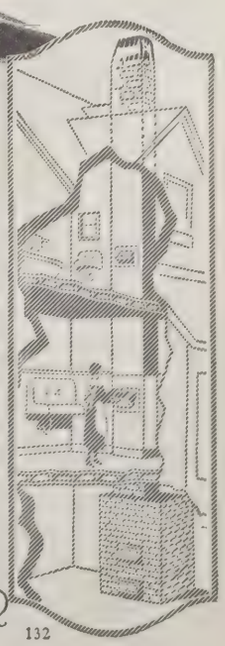

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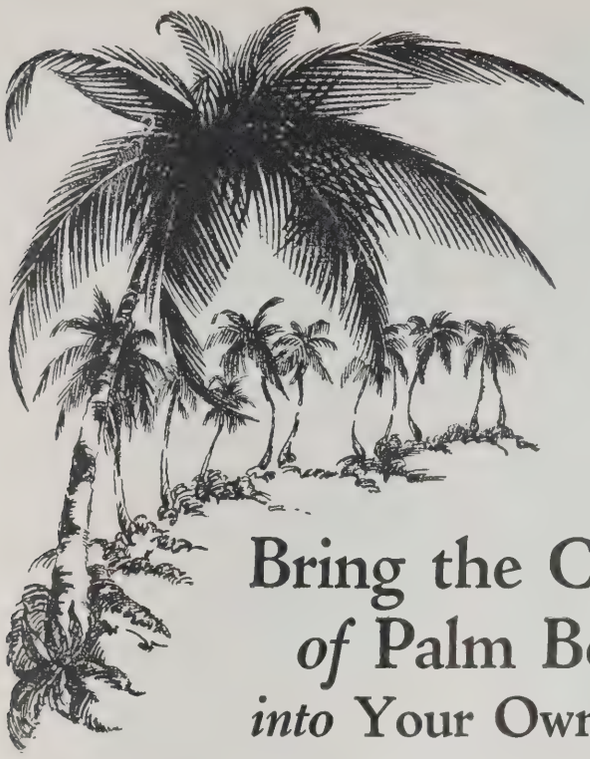

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Note—Arrangements can be made to purchase a Kelsey Heater on easy payments

The small Grand (Brambach) in a thoroughly modern living room in New Haven. It invites the dance and ties the living room to the sun porch and dining room

The Piano Holds Its Place

Continued from page 629

displayed radical tendencies, so far as piano design is concerned, but none the less effective. In a recent exhibition in New York City there was a peacock blue model which had metalic struts in place of the old accepted idea of legs.

Not only has the piano emerged from its two-track cabinet scheme, but it is running the full gamut of decorative color possibilities. Breaking away from the limited offering of specially designed cases, a model can now be secured in almost any color. In some cases it is a matter of the use of the artist's brush in painting the case, and in others it is the choice of rare woods with which the cabinet-maker and designer can secure his color effect.

With all this development the piano has not lost its reputation or standing for fine artisanship in cabinet work. The history of the pianoforte through the monochord, the clavichord, the spinet, the harpsichord to the pianoforte accredited to Christofori in the early Eighteenth Century, is a story of fine cabinet work. And although much of the present-day cabinet work is done by machinery in much less time than under the old painstaking hand process, it is none the less illustrative of fine art.

Perhaps this increase in interest in the design of the piano reflects the general increase in interest in music. There has come a full realization of the neglect of music in this rush of American home life. Doctors are advising music as constructive discipline, and in many cases as a corrective outlet for various childhood traits. They are even going farther by insisting that every child have musical education, not only for the enjoyment that follows in later years but for the reflection in health and thought that comes to the child as a result of his ability to participate in and to create music. And it is pleasant to know that one's love of beauty and ability to create has unlimited range in one's choice of a piano.

This Queen Anne Model (Lester) is very much at home in this studio living room

Balsam-Wool is a blanket of fluffy wood fibre that looks and feels like sheep's wool and is its practical equivalent in insulating efficiency. Balsam-Wool is windproof, waterproof, fire-resistant, sanitary and durable.

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Many of the rigid, "dense" materials are good insulators in themselves. They will make your house easier to heat—if, of course, they are *added* to the walls and roof and not merely substituted for other materials.

But to get the full benefits—the maximum savings—that insulation is capable of giving you, you must use a *flexible* material. One that will insulate where insulation is most important. One that can be tucked right into cracks and crevices. One that will really seal your house. For the big heat losses in any house occur around window casings, door frames and the innumerable "leaky" places in walls and roof.

Cover these leaky spots with a *full inch* of flexible insulating material such as Balsam-Wool and you will have a 100% job of insulation—a job that will enable you to reduce the size of your heating plant and radiators. A job of insulation that will pay 35% to 45% dividends on your investment every year.

This subject of insulation is an important one today and there's a great deal of misinformation existing on it. Get the facts before you spend a cent. Send the coupon for a sample of Balsam-Wool and our helpful booklet, "*House Comfort That Pays for Itself.*"

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SHOP WINDOWS OF MAYFAIR

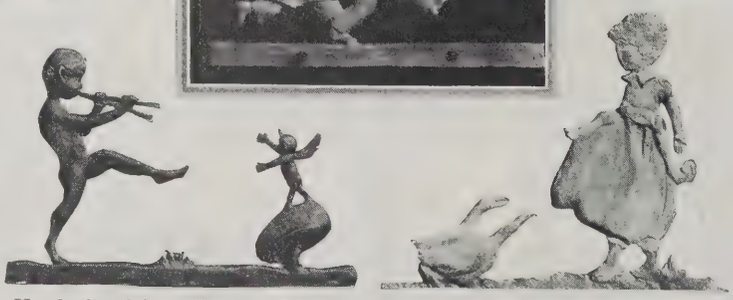
By Shirley Paine

This is your department, please feel free to use it early and often. The more things you buy through Shop Windows of Mayfair, the more things we can show here. Each article has been chosen because of value, smartness, or usefulness. Our Board of Censors is active, and everything on these pages had to receive a unanimous vote before being shown to you. Make checks payable to Shirley Paine, care Doubleday, Doran & Company, Inc., 244 Madison Avenue, New York. Write her, enclosing check for the article you wish, and she does the rest. This service is entirely without charge.

This hand-wrought iron table lamp is offered complete with shade by one of the smartest decorating shops on the Upper East Side. At $10 it is an exceptional find, and will fit into any room in the informal house or apartment. Transportation extra. Shade is heavy tan parchment hand decorated. Just write Shirley Paine for folder

Both these items are strongly made of solid polished brass. The glass lamp chimneys are authentic and nicely engraved. Chandelier has heavy turned brass center rod, is 17″ high with 14″ spread; price $44. Wall fixture is especially graceful; 11″ high x 7½″ extension, $12. Delivered greater N. Y. Write Shirley Paine for complete catalogues

Jack and Jill—a charming rhyme with music on this charming tan parchment lampshade. The base is of brushed solid brass cast in the famous bunny model by Garret Thew. The hand-decorated shade is oval, 12″ wide. Write Shirley Paine for ideas. Lamp wired complete $9.50, carriage collect



Handpainted iron plaques with a spring steel wedge for use also as doorstops—Peter Pan and Tinker Bell, Modern Priscilla and the Goose Girl. Two small rings at back permit them to be hung on the wall. They are charming bits for the country place, and will really stop a heavy door. Choice in shades of blue, green, mauve, and pink. Price $4, postpaid, complete with wedge and screws, packed in an attractive box. A fine catalogue of unusual iron items and weathervanes. Write Shirley Paine

This is a famous Pennsylvania armchair, nine spindle hickory back; hand carved ears on comb; hickory arms bent to follow lines of seat, which is deeply hand-hollowed from a 2″ thick section of pine. Width 25″; 18″ deep; height 48″. Choice maple, walnut, or mahogany finish, but maple is recommended as being best. Hand-rubbed with boiled oil, shellacked and waxed. $40, crated for shipment

This fine wing chair is a copy of a famous original in Salem, Mass. It is offered to readers of our Shopping Section for the months of September and October at $64.50 covered in your own choice of lovely glazed chintzes, cretonnes, sateens. Where not crated $61.50. Bright quiltings $10 extra. Maple, mahogany or walnut legs. Cuttings mailed gladly, also nice catalogue

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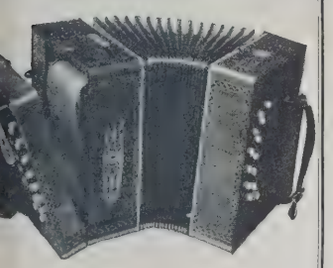

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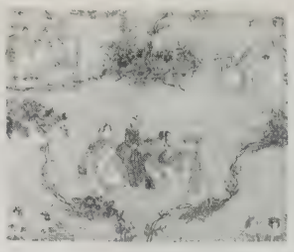

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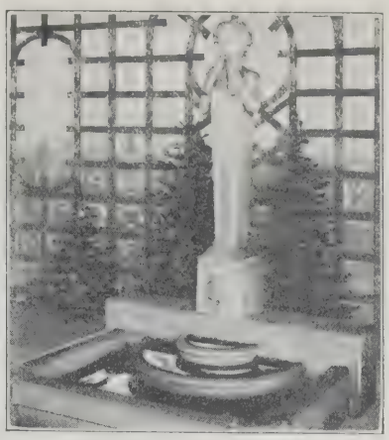

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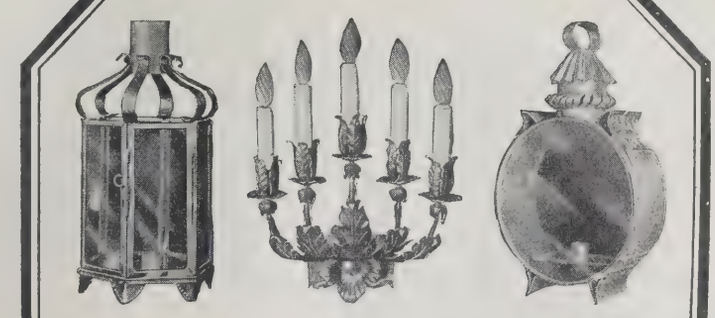

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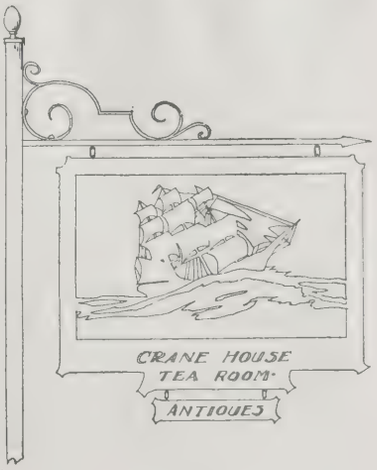

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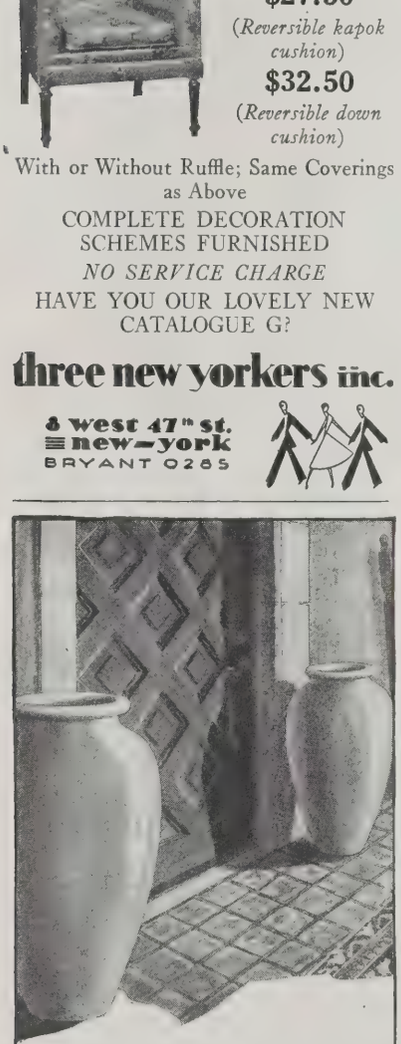

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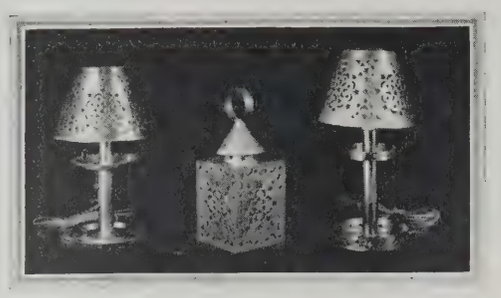
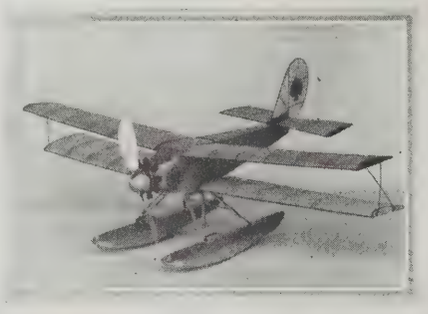


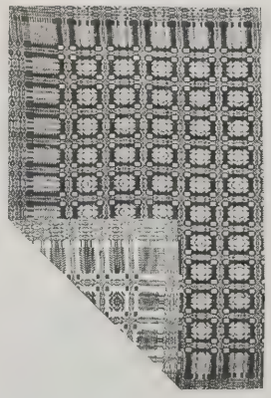
Fascinating perforated metal lamp reproductions from Boston. The work of this original shop is happily free from the usual "art-craft" touch in metal. The candlestick table lamps make quaint night lights, or go well on wall tables in Colonial homes. These are $7.50 each, with 8 ft. cord and plug; shade $4.50 extra. The lantern, copy of an old model, would grace any porch or road entrance. Wired complete, $7.50

The base of this lamp is maple, and comes in dull rubbed maple finish with black trim, or in your choice of red, green or black, all with gold trim. Shade is parchment with ruffles, choice of yellow, green, or rose. Height overall, 18½", shade diameter, 11½". Being quite a sizable lamp the complete price with 6ft. of silk cord is most unusual at $16, postpaid anywhere in America. Catalogue of other items

One seems to be constantly in need of orange juice nowadays, summer and fall. The problem has been to get one which does not shout "ten cent store" before all present, one which will not break, which will strain its own juice. Triple sterling plate on hand-hammered nickel silver base. Strainer in spout, good lines, graceful handle. $11 prepaid 100 miles N. Y.



This Silver Ace toy airplane is a marvel. It will rise from the ground and speed for 1,000 feet or more, will fly in circles, and then land gracefully. It is sold by one of America's leading toy specialty shops and costs $12.50 postpaid 100 miles N. Y. For partly assembled plane which can be put together in half an hour, $9; prepaid 100 miles



This is the rare and beautiful Lovers Knot reproduction coverlet with the "Pine Tree" border which so delighted Queen Mary of England recently, and is now in use in Buckingham Palace. It is reproduced from a very old original down in Virginia and spun in Scotland in 1750. It has been praised by authorities everywhere. Colors are indigo blue and white only; three sizes: double bed, 80 x 100", $25.80; twin bed, $25.10; special day bed size, 54 x 80, $14.80. Woven of virgin wool on cotton warp

We've heard of cats and canaries but here's the jolliest glazed modern wallpaper imaginable showing cats and flowers! It is washable. The colors are just what they should be—greyish background, black cat, blue squares, and bright natural colors. Nothing could be newer or more stunning for a child's room, for the cosy guest room—in fact anywhere that you want charm and color. Cuttings mailed gladly; just write Shirley Paine. Price. $3 per roll 18" wide

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If the Japanese find the Gardeners' Chronicle so useful, surely no American gardener should try to get along without it.

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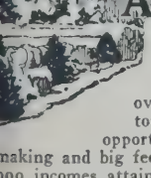
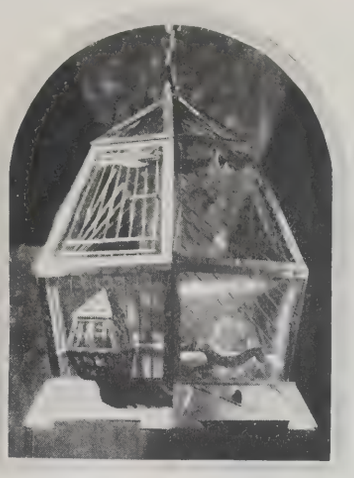


Dignified, Exclusive Profession not overrun with competitors. Crowded with opportunity for money-making and big fees. $5,000 to $10,000 incomes attained by experts. Easy to master under our correspondence methods. Credentials awarded. We assist students and graduates in getting started and developing their business. Established 1916. Write for information; it will open your eyes. Do it to-day!

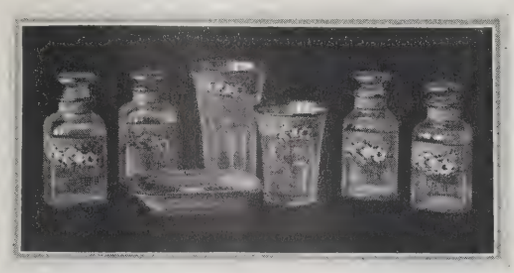
AMERICAN LANDSCAPE SCHOOL
77-GA, Newark, N. Y.

SHOP WINDOWS OF MAYFAIR

Shopping Service

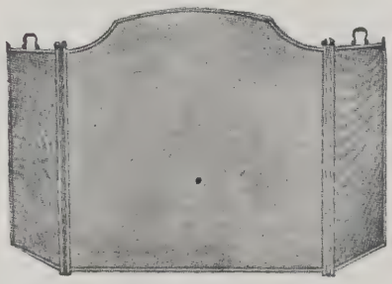


Now and then I list something fairly expensive but which is so unusual and so smart that it should be shown to our readers. In the wave of *art moderne* sweeping the country there is naturally much that is good and much that is horrible. Some is designed by amateurs with no training, some by talented masters knowing their subject. This modern birdcage is not only artistic but is made of the best materials obtainable. Brass, copper, zinc, and aluminum are the metals. 15″ high and about 16″ wide. Delivery two weeks; price $75. Other styles designed to meet your own ideas



Are you one of those who inadvertently advertise garish medicine labels on the shelf? Decorated glass bath equipment is distinctly in order now. This pattern has been inspected personally, and it is most satisfying in looks and usefulness. Two tumblers and tray, $6.50. Tincture bottles may be etched with the following names: Listerine, Bi-Carb, Witch Hazel, Peroxide, Tooth Wash, Hair Tonic, Alcohol, Ammonia. In ¼lb. size $3.50 each; ½ lb. size, $4.25 each. May be had complete or singly. Postpaid 100 miles N. Y.

It was an especially bright and lucky day when the sculptress Matilda Browne did us the honor of calling in order to leave photographs of her latest book-ends, modeled from a prize winning cocker spaniel. These 6″ high book-ends are not the usual commercial work forced out in quantity production, but are cast in heavy composition material direct from the original models. Every dog lover will be delighted with these. Price is $18 the pair in your choice of light green, dark green, or brown bronze finishes. Postpaid 100 miles N. Y.



We are not showing this fender now to anticipate the season, but with September here, can fall be far behind? Also good prices are often available out of season. This fender design is patented. Strong ½″ round brass tubing makes for strength and good looks which are hard to find in the usual flat frames. Choice brass, or black finish; fine mesh cloth; brass knobs and handles. In 30″ wide x 27″ high center panel, wings 13 x 23½, black frame $20; brass frame, $24. Same but with center panel 30″ high. black frame, $22; brass frame, $27

A heritage *from the* past

AMONG the finest and most modern homes you will notice a surprisingly large number trimmed with forged iron hardware. Appreciation of its sincerity seems to continue as a heritage from the past. Forged Iron Hardware by McKinney has given a tremendous impetus to its use. *Its marvelous texture, its authentic designs, its quick availability and the remarkably reasonable prices make a universal appeal.* Even smaller houses can use it, at least for the entrance door trim. It is no longer necessary to use commonplace, uninspired hardware. When once you have seen it you will realize just how much it can add of beauty to your house.

McKINNEY FORGED IRON HARDWARE

Forge Division,
McKinney Mfg. Co., Pittsburgh, Pa.
Please send me, without obligation, the items I have checked:—
☐ Folio on Lanterns
☐ Brochure on Forged Iron Hardware

*Name*_____

*Address*_____ GHB 9-28

"DON'T *go near the Street!*" *says this* PAGE Fence

Page makes and erects Wrought Iron Fence too.

Modern automobiles can take city boulevards (or country lanes) at express-train speed. Keep your children safe from this modern hazard with a definite boundary line of sturdy PAGE Fence. It will pay you to investigate this *better* protection for children—for property.

PAGE FENCE ASSOCIATION
215 North Michigan Avenue—Dept. 9-B
CHICAGO, ILLINOIS

53 Service Plants erect fence everywhere

There is a Page Service Plant near you that will help you—from your first plans to the final erection of the Page Chain Link or Wrought Iron Fence. Write for name and address, also interesting literature.

PAGE 53 *service plants erect fence everywhere* **FENCE**

America's first wire fence — since 1883

CHAIN LINK — ORNAMENTAL WROUGHT IRON

LEADCLAD *Spanish Tiles*

Long Life *and* Beauty

Since time immemorial, enduring lead has played a leading role in roofing fine buildings. Through the Lead-clad process, lead is now made available, at very moderate cost, in the form of Spanish Tiles, Shingles, or as flat and standing seam roofing for buildings of every type and style of architecture. Leadclad Spanish Tiles afford perfect protection against lightning, fire, breakage, or the ravages of time. Furnished red or green; look exactly like clay tiles, but are much lighter and stronger. Send for free book "Defying Age and Time."

WHEELING METAL & MFG. CO.
Dept. 1-B Wheeling, W. Va.

VALLEYS GUTTERS **LEADCLAD** SPANISH TILES
REG. U.S. PAT. OFFICE 1925

SHOP WINDOWS OF MAYFAIR

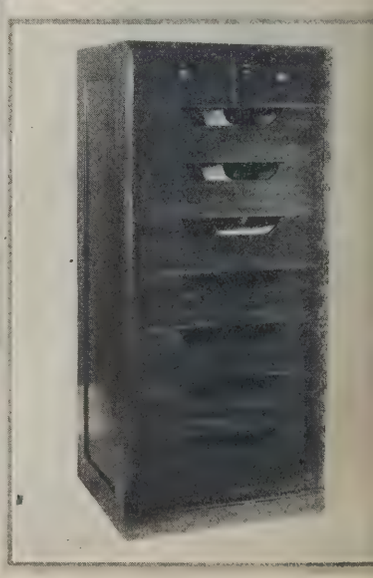
Shopping Service

This maple and birch dressing table-mirror outfit is admirably suited to a girl's room, and may be had complete or separately. A Boston firm famous for its reproduction furniture is offering it at a special early fall price of $26.50 for table—which can also be used as a desk—and $15 for the mirror. Choice old maple or Colonial red. Prices include packing and Greater Boston delivery. A line to me brings their nice catalogue, as these are part of a fine set

When sending your orders in to Shirley Paine be sure to send a separate check for each article. We ask this, not for our convenience but for yours. Separate checks mean that the articles you order will reach you in a very much shorter time than if you send one check covering all. Checks to Shirley Paine mean quick delivery and satisfaction!

"Natural reproductions from Nature's treasure chest," is the way the famous Boston foundry describes these solid cast bronze items. These items are not modeled by an artist but actually produced direct from natural live branches. Besides these there are paperweights made from actual stag footprints in earth, beetles on oakleaves—all of th original, all in best decorating ta Thistle on marble base, pine branch bronze, each $10.50. Write me fo knockout catalogue of wrought iron bronze

This drawer cabinet takes a starc shirt without folding, collars, 'kerchi hose, all sorts of men's gadgets. M of white-wood, you may have mahogany, maple, or walnut stain, or finished. Two small drawers at top for miscellaneous gear. 24" wide, deep, 54" high. Price $68.50 delive Greater N. Y.



Another special find this month, an unusual triangular dressing table in unpainted maple for $24.50. Bench $7.75. It is quite large—38" across front, 22" deep, 30" high. A 22" high triple mirror specially backed up with laminated maple and will stand anywhere. Special mirror price with glass rosettes, $32.50.

Floors that time enriches

In the old world, peasants laboriously wax-polished floors by shuffling over them with wool-swathed feet

From the *Chambre* de la REINE at FONTAINEBLEAU comes this secret for American housewives

THIS floor has known the nervous pacing of Marie de Medici, wife of Henri IV, far into many a seventeenth century night. The tired footsteps of every succeeding queen of France have crossed its gleaming surface to refuge in sleep. The jabbing heels of Revolutionists have violated its privacy. Countless visitors have scraped and scuffed it.

Do you not marvel that three and a quarter centuries have only burnished its beauty? And sigh when you think of the mars and scars on your own floors so recently laid? What can be the reason?

Wax! Wax laboriously rubbed in by peasants since the Chambre de la Reine was first decorated in 1600. Wax with its wonderful power to penetrate into the very pores of wood, preserve, resist wear, beautify.

A remarkable new invention now makes it amazingly simple for American homes to have floors of the lasting charm that has long distinguished European palaces—the Johnson Electric Polisher.

With the lamb's wool mop you easily spread on Johnson's Liquid Wax. Attach the Polisher to a light socket. Then glide it lightly as its whirling brush does all the work. No kneeling; no stooping; no dirt. It is just like walking over your floors.

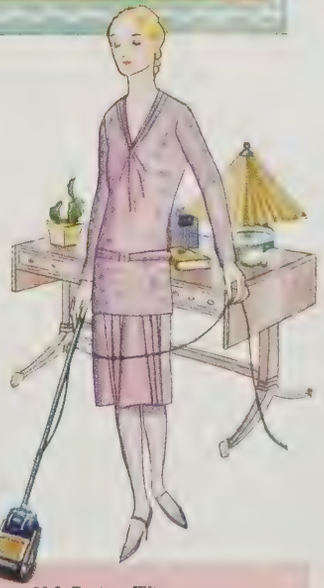
New or old, varnished, shellacked, linoleum, or tile; every floor responds to this beauty treatment. For furniture too, Johnson's Wax is incomparable. Neither greasy nor sticky like other polishes, it forms a hard film of protection against scratches and dirt. Dust glides away. Finger marks do not show.

Mail the coupon for a sample and booklet.

Swift, effortless, Johnson's Electric Floor Polisher makes waxing the easiest part of housework. Tremendous popularity and production have cut the price $13 on the new improved model. It was $42.50. Now only $29.50 complete with lamb's wool mop and ½ gal. of wax. Sold (or rented by the day for very little) by grocery, hardware, paint, electric, drug, and department stores.

Now $29.50

The bigger De Luxe Polisher for bigger floors $68.50



S. C. JOHNSON & SON, *Racine, Wisconsin*

* * *"The Interior Finishing Authorities"* * *

(Canadian Factory: Brantford)

Waxes, Varnishes, Enamels, Wood Dyes, Fillers, Wall Finishes

As you like it; either in paste or liquid form

JOHNSON'S WAX Polish for FLOORS FURNITURE WOODWORK LINOLEUM AUTOMOBILES

S. C. JOHNSON & SON, Dept. H-9, Racine, Wis.
Send me enough Johnson's Liquid Wax to finish my dining room table or the floor of a small room. Also your beautifully illustrated booklet on the care of floors and furniture. I enclose 10c in stamps for postage.
What dealers in this city sell Johnson's Electric Polishers? ☐

NAME .....

ADDRESS .....

CITY ..... STATE .....

Garden & Home Builder

emerges as

The American Home

HE American Home will carry on the editorial traditions of Garden & Home Builder. It will be devoted to the building, the equipment, the decoration and furnishing of homes, the planting and care of gardens. The emphasis will be on the modest house. It will serve the same round of interests in home and garden. It will preserve the note of the practical and utilitarian—keyed to the interest of those who desire new and higher living standards.

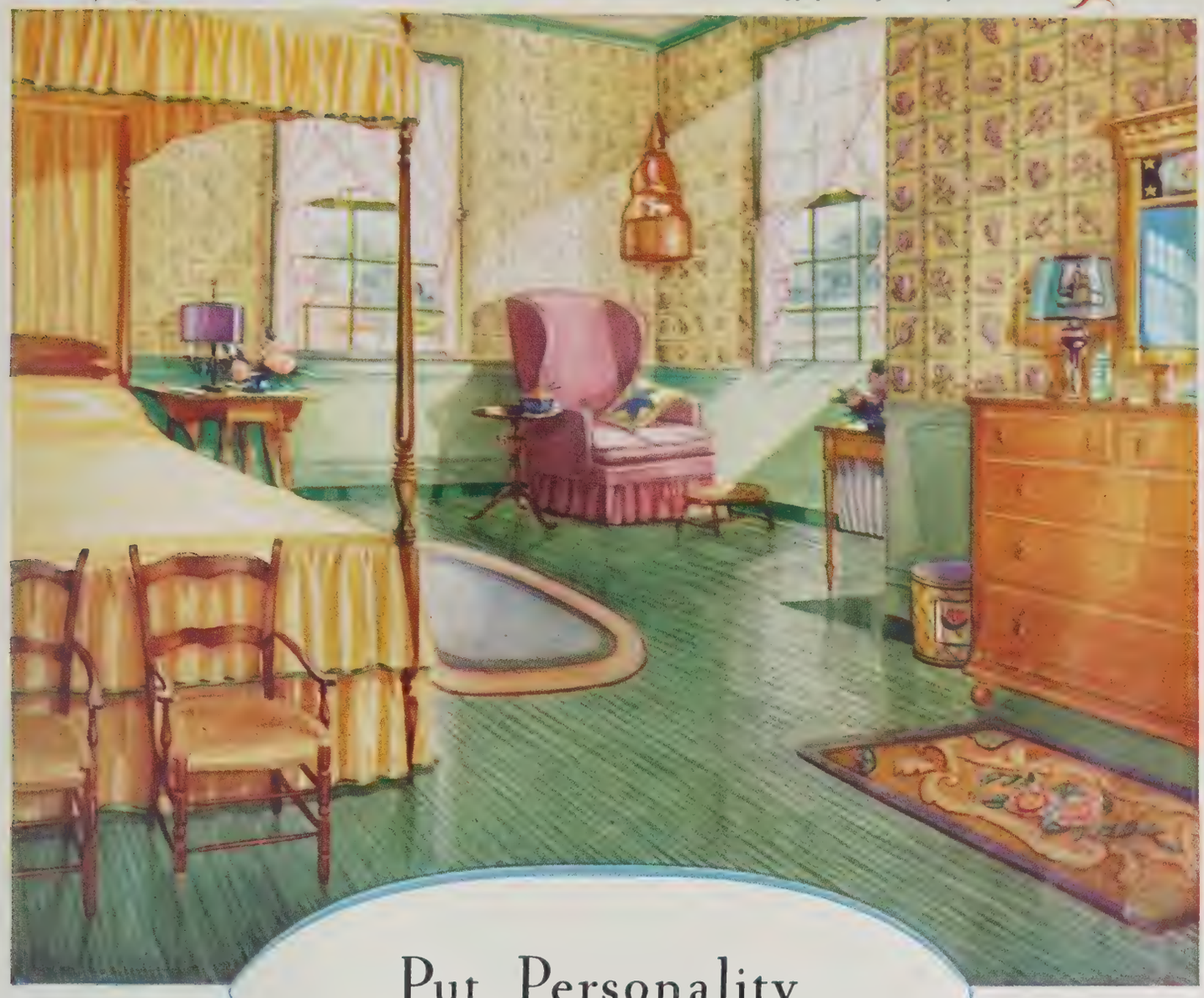
The American Home will not only preserve but improve upon the quality of presentation established in Garden & Home Builder.

Subscribers to Garden & Home Builder will receive The American Home for the unexpired portion of their subscription and as The American Home has been priced at $1.00 a year, subscriptions have been extended proportionately. If you are now a subscriber, the new expiration date will be indicated on the wrapper in which your October issue is mailed.

If you purchased this copy of Garden & Home Builder on the newsstand, please be sure to ask your newsdealer to save you a copy of The American Home. The first number under the new title will be dated October but will be published September 15th at ten cents a copy. We know you will be pleased with it.

Doubleday, Doran & Co., Inc. Garden City, N. Y.

A Colonial room, becomingly modern because of a happy selection . . an Armstrong Jaspé No. 19 Accolac finish



Put Personality *into that* Period Room

ROOMS that say nice things about you . . . that show how clever you are—every woman wants them. Still . . . if you turn to a period style there seems little chance for self expression, for those deft personal touches that give a room character.

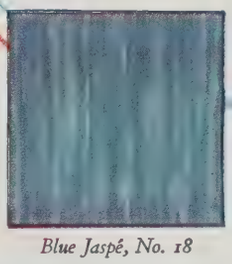
Unless you boldly step forth . . . discard some obsolete ideas about floors . . . and let pattern and color help you win your friends' hearty admiration.

Take the early American room above, for example. This room, though strictly following a set period, does not seem cast from a die. It sparkles with spirit . . . is different . . . unusual. And all because the woman who planned it showed true ingenuity in selecting the floor.

Like wind-wrinkled grass, this Jaspé effect in Armstrong's Linoleum makes the whole room look fresh and clean. It's new. It's modern. Yet it blends perfectly with the old maple chest, the canopied four-poster bed, the salamander chairs. And its use suggested other original touches—the built-in border of plain green linoleum . . . the light sage-green wainscoting and cornice (which might have been an uninteresting white or cream).

"But I like the Spanish, the English, the French Empire!" you say. Name even the ultra-modern and you will find Armstrong Floor designs at local stores that will be new inspirations for creating rooms in the period . . . yet in original good taste, too.

The cost is reasonable. The installation, quick. Cleaning so simple you need never touch water to your new Armstrong Floor—just a dust-mopping across the smooth Accolac surface. And as for expensive floor refinishing—once cemented over builders' deadening felt, your Armstrong Floor is good for years of wear.



Blue Jaspé, No. 18

Pattern floors aid clever home decorator to create period effects that are "different"

Marble Inlaid, No. 90

New Ideas Worth Copying. New color schemes, "different" room arrangements—see how Hazel Dell Brown, decorator, creates them in her book, "The Attractive Home, How to Plan Its Decoration." For a copy send 10c (Canada, 20c), to Armstrong Cork Company, Linoleum Division, 909 Pine St., Lancaster, Pennsylvania.

Armstrong's Linoleum Floors

for every room in the house

Look for the CIRCLE A trade-mark on the burlap back

PLAIN • INLAID • EMBOSSED • JASPÉ • ARABESQ • PRINTED

The Lesher Studios present Cellini Prints

CELLINI Prints are the latest achievement in exquisite wall coverings and wall hangings. They are suggestive of rare Damasks, but yield a new original beauty in the rich tracery of their designs.

Fabric *wall coverings* are the latest fashion trend in interior decoration, and Cellini Prints introduce a sparkling pageant of color and pattern that lends aristocratic charm to the home.

Cellini Prints are but one of the countless creations in *Lesher Mohairs*. These fabrics are woven in the great *Goodall Mills* of Sanford, Maine. The special Angora Mohair yarn as well as the unique construction and finish result in smooth-surfaced *weaves* of soft, lovely lustre.

Their diversity is amazing: There are beautifully toned gauze curtain cloths—delightfully blended casement cloths, draperies, upholsteries, wall hangings and bedspreads. They range in weight from the feathery-light to effects that have the heft and handle of rich brocades.

And Lesher Mohairs bring you these outstanding advantages: They wash perfectly, yet their faculty for shedding dust and dirt *automatically* keeps them clean. They hang in permanent graceful folds. Their wear is amazing and results in an economy unknown in other fabrics.

For every decorative need—for bedroom, living room, and every room in the house—they will yield perfect harmony.

Demand Lesher Mohairs by name. Your favorite store or decorator can no doubt supply you. . . If not, consult us.

A delightful brochure, written by a well-known authority, will be sent free on request. It describes Lesher Mohairs fully and brings you a world of helpful information concerning the Home Beautiful. Be sure to write for it today.

Lesher Mohairs are a Goodall Product.

LESHER, WHITMAN & CO., Inc.
Eight Eighty-One Broadway, New York City

Insuring the Lawn

Continued from page 634

ubstance consists in mixing arsenate of ead with the upper one-half inch of soil efore the seed is planted.

In building a grubproofed lawn the round should be plowed or spaded, ma-ured, harrowed and raked, leveled and moothed as per the usual spstem of awn preparation. Under ordinary con-itions the next and final procedures ould consist in sowing the grass seed nd rolling.

When grubproofing is desired, however, rsenate of lead is applied *before seeding* t the rate of 5 pounds per thousand quare feet of soil surface. Inasmuch as rsenate of lead is a white, fluffy, insolu-le powder and is blown about by the lightest puff of wind it is not advisable o try to spread or dust it over the sur-ace of the soil because there will be a arge loss due to the powder blowing way. Furthermore, it is very difficult o dust 5 pounds of arsenate of lead owder evenly over 1,000 square feet f soil surface.

So we mix the 5 pounds of arsenate f lead with a couple of bushels of moist, ot wet, sand or fine screened light soil being very sure that the two are thor-ughly mixed) and apply the mixture o the surface of the lawn under con-truction.

A concrete floor is the best place for his job of mixing the arsenate of lead owder with the two bushels of soil or and. Take one half bushel of the soil nd sand and spread it out on the floor bout an inch deep. Now spread the 5 ounds of arsenate of lead evenly over his layer of soil. Take a spade or shovel nd mix the two thoroughly together. pread out the mixture an inch thick n the floor and add another half bushel f soil or sand, making the layer two nches thick. Mix again thoroughly ith the shovel and spread the resulting ixture 2 inches deep on the floor. Now dd the remaining bushel of soil or sand nd mix thoroughly again. The material s now ready for application to the sur-ace of the soil.

This method of mixing may appear nduly laborious, but experience has hown that 5 pounds of arsenate of lead annot be mixed evenly with 2 bushels f soil or sand when the soil and chemi-al are thrown together in one oper-tion.

Applying the 2 bushels of arsenated oil to the thousand square feet of lawn nder construction is best done by owing with the hand just as one would ow seed or fertilizer. The average ama-eur gardener should prove capable of a ob of this sort. Remember that no natter what method you follow in pplying the arsenated soil to the lawn he idea is to spread the two bushels of aterial *evenly* over the 1,000 square eet of soil surface.

When the arsenate of lead has thus een applied to the surface of the lawn nder construction, take a rake, prefer-bly a short-toothed one, and *scratch* he chemical into the soil to a depth of ne half-inch, no deeper. Be careful with he rake. If you go deeper than one-alf inch the grubproofing ability of the rsenate of lead will be materially re-uced. This is obvious when you con-der that almost all weed seeds which erminate successfully are close to the rface while grubs also do the bulk of heir root feeding right under the surface f the soil.

Having applied the arsenate of lead to a depth of one-half inch all over the lawn area the seed can now be sown in the usual fashion and the soil surface rolled. The seed will be slightly slower than normal in sprouting and the growth the first few weeks will be somewhat slower than if arsenate of lead had not been employed, but after this initial slowness the grass takes on a decidedly more than normal vigor and continues to make a lusty growth. The stimulating effect of arsenate of lead upon the most important of the fine turf grasses is pronounced.

Five pounds of arsenate of lead per 1,000 square feet of soil surface applied as above will grubproof a lawn for at least a year and probably two years although in June of the second year and each year thereafter that it is desired to maintain this grubproof condition it is advisable to apply 2 pounds of arsenate of lead to each thousand square feet of lawn. The chemical is mixed with screened soil or sand as already described and scattered over the grass as evenly as possible so that each square foot of turf receives its proper share. Avoid spreading the arsenate when the grass is wet as a slight burning may occur from the arsenate sticking to the blades of grass. While this burning is of a temporary nature only, it is well to avoid any chance of it occurring.

The grubproofing property of arsenate of lead is due to the fact that the chemical is a poison and that grubs and worms, in the course of their feeding operations are constantly taking soil into their bodies. If the arsenate of lead is present in this soil it follows that the worms and grubs will be poisoned. The vast majority of weeds commonly found in fine turf, and especially those most difficult of removal such as Chickweed and Crabgrass, are killed by the presence of the arsenate in the soil, giving the fine turf grasses all the opportunity in the world to flourish.

The care of a grubproofed lawn is no different from the care of any other lawn except as to fertilizers. Use only well-rotted manure and ammonium sulphate or cottonseed meal on turf treated with arsenate of lead. Avoid commercial fertilizers containing nitrate of soda, acid phosphate, or potash salts since these react on the arsenate of lead and destroy its grub-killing properties. Apply no lime to turf whether it has been treated with arsenate of lead or not. Lime is detrimental to the growth of fine turf grasses and encourages the growth of weeds. If manure is not available use the activated sludge known as Milorganite which is the product of the Milwaukee Sewage Commission and is a dry odorless powder. This material has proved to be a very valuable lawn fertilizer and is in extensive use on golf courses all over the country.

This arsenate of lead treatment should be applied to ornamental turf only. Do not apply it to hayfields, pastures, shrubbery borders, flower and vegetable gardens. Furthermore, do not allow chickens, cows, sheep, or other grazing animals to feed on turf so grubproofed. Chemical analysis has shown that these animals would have to eat a relatively large amount of grass from arsenated turf before even becoming ill but nevertheless the grubproofed lawn should be maintained strictly as a lawn.

Sanitarium Equipment Company,
Battle Creek, Mich.

Gentlemen:-

The constant rushing back and forth, numerous 'changes' and irregular mealtimes that are part of every actress' life, make 'keeping fit' a most difficult task. Yet, with your Health Builder the impossible becomes possible. Not only does it enable me to keep radiantly healthy at all times, but, also, it has proved to be invaluable in eliminating superfluous fat.

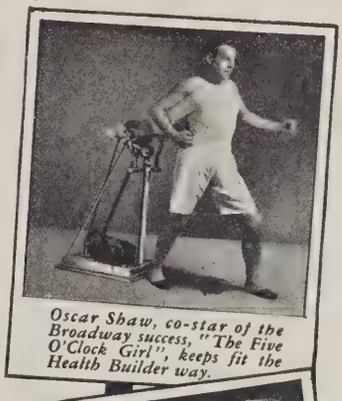
Sincerely,

Vivienne Segal

"Here's Health and Beauty in 15 minutes a Day!"

Says Vivienne Segal, famous actress, appearing in "The Three Musketeers"

MISS Segal writes: "The constant rushing back and forth, numerous 'changes' and irregular mealtimes that are part of every actress' life, make 'keeping fit' a most difficult task. Yet, with your Health Builder the impossible becomes possible. Not only does it enable me to keep radiantly healthy at all times, but, also, it has proved to be invaluable in eliminating superfluous fat."



Oscar Shaw, co-star of the Broadway success, "The Five O'Clock Girl", keeps fit the Health Builder way.

Mary Eaton, starring in "The Five O'Clock Girl", highly recommends the Health Builder.

World Famous Beauties Use and Endorse this Method

Dorothy Knapp, Irene Delroy, Barbara Stanwyck, Marjorie Joesting, Murrel Finley, Mary Eaton—these are just a few of the famous beauties who enthusiastically use the Battle Creek Health Builder. Men, too, among them William Wrigley, Jr., Walter Chrysler, are delighted by this easy, enjoyable new way to keep fit.

Just 15 Minutes a Day

Oscillate your way to health. You can now exercise and massage your whole body this surprisingly simple new way, in your own home—*without effort on your part.* Over 50,000 men and women of all ages now do so.

The Health Builder vigorously massages the heaviest muscles, stimulates circulation, aids elimination, banishes fatigue, and *reduces weight in any part of the body desired.* You receive a better massage than the expert masseur could give you.

Send for FREE Book

Send for "Health and Beauty in Fifteen Minutes a Day"—an intensely interesting Free book giving the complete story of this scientific method. Sanitarium Equipment Company, Battle Creek, Mich.

The Health Builder Keeps You Fit

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Room AD-3951 Battle Creek, Mich.
Please send me FREE Book "Health & Beauty"—Today.
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Gardens of the Blue Ridge

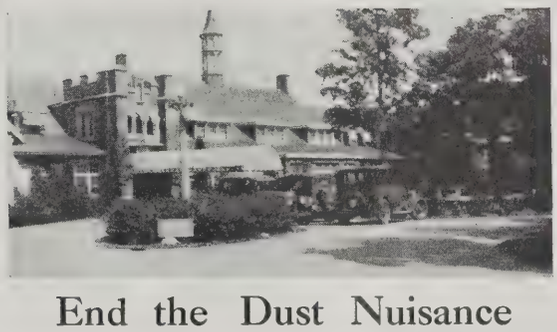
Where fertile soil gives all plant-life unusual vigor, where "snappy" winter weather puts hardiness into root and branch, where Grandfather Mountain casts cooling shadows in mid-summer, lie the Gardens of the Blue Ridge where my native shrubs and plants are propagated and grown to shipping size.
For many years I have been planning to produce in large quantities the floral splendors of the Blue Ridge. That plant-lovers in other sections may know these unusual plants, I make these special offers for fall shipment only—

100 Trillium grandiflorum	1st size for	$ 7.50
100 Lilium Grayi	1st size for	16.50
100 Lilium Superbum	1st size for	12.50
		$36.50

The entire 300 bulbs for only $35 Half collection (150 bulbs) for $18

I can supply large quantities of Azaleas, Rhododendrons, Pieris, Kalmias, aquatic plants and rare perennials. A copy of my latest catalogue will be sent free on request.

E. C. ROBBINS Gardens of the Blue Ridge Box 7, Ashford, N.C.



End the Dust Nuisance Before it Begins

An application of Solvay Calcium Chloride now means dustless drives for you this summer without the need for constant sprinkling. Solvay Calcium Chloride ends the dust nuisance cleanly and effectively. It makes better roads and playing surfaces too.
On roads, driveways, playing fields and flying fields the nation over, Solvay Calcium Chloride has furnished the most successful means of getting rid of dust.

Write today for Booklet 12657

SOLVAY SALES CORPORATION
Alkalies and Chemical Products Manufactured by The Solvay Process Company
40 Rector Street New York

SOLVAY
Calcium Chloride

Keeping the Lawn Up to Par

HARRY M. ZIEGLER

WE may abuse or neglect our lawn shamefully the rest of the year and our carelessness may not be apparent—until next year; but, if we mistreat or man-handle our lawn in summer, we pay a tremendous price for our negligence right now—sometimes even with the lawn itself.

The results obtained on more than a thousand lawns, coming under my observation, prove conclusively it is a simple matter to ruin, almost beyond repair, the best of lawns by doing the wrong thing at the right time during June, July, and August.

If our lawn was properly seeded and fertilized early this spring —or better yet, last fall—the next most important factors determining our success or failure have to do with how it is cut and watered, and the amount of shade it has. Many of us are wondering why we obtain such poor results with our lawn in summer. From the way we are mistreating it, the surprising thing is that we have any lawn at all.

We will obtain the best results if we cut our lawn every week to ten days with the blades of the mower set as high as we can get them. If the knives of the mower are sharp, they will cut the grass evenly without pulling or bruising it. Grass leaves, cut with a dull mower, become tipped with yellow because the plant tissues have been bruised which causes the ends of the blades to die.

If all the clippings are removed from the lawn during June, July, and August, there will be no danger of the grass being scalded or killed by the heat of the decomposing clippings. In early spring and again in the fall, the clippings may be left on the lawn. In the fall, if the grass is cut at all, it will be a good plan to cut it high. Many persons don't cut their lawns during the fall, preferring to grow some cover for winter protection.

When grass is cut short during June, July, and August, the withering rays of the summer sun beat down on it with such intensity the grass becomes sunburned and turns brown. In some instances it becomes so badly sunburned it dies. It is almost as bad a practice to let our grass grow too high as it is to cut it too short. If it isn't cut, the stems become yellow for lack of sunlight to color them green.

We can prevent the formation of brown streaks along the crowns of our terraces by mowing them with the slope of the terrace instead of across it. If we mow across the crown of the terrace, the wheels of the mower are at a lower level than the crown with the result the grass on the crown is literally chewed off at the surface of the ground. This leaves a brown, unsightly streak. The same thing often occurs along sidewalks when one wheel of the mower is lower than the surface of the ground.

During an extremely dry period, one good watering a week, which thoroughly soaks the soil is sufficient. A light sprinkling soon evaporates and does not soak down into the soil. This causes the roots to stay near the surface seeking the water where they often suffer badly during dry, hot weather, and are more apt to freeze during the winter.

With the rays of a hot, scorching sun beating down on the lawn all day, the soil will be baking hot by sundown. To spray it then before it has time to cool with cold water produces a steaming effect. Although it may not be noticeable to the naked eye, we produce enough steam to give our lawn a nice Turkish bath. Grass will stand for a lot of abuse and several such Turkish baths may not weaken it, but if continued day after day it grows weaker and sicker, and finally goes down for the count.

The best results will be obtained if we water our lawn after sundown, or about sunrise, shortly before or just after, when the soil is cool.

Unless a Bluegrass lawn is free from Crabgrass, is shaded more or less, or the weather is cool, it is a better practice during the summer months not to water it at all because of this worst lawn weed, Crabgrass. This lawn pest needs much sunlight and high temperatures. Keeping water off of a Crabgrass-infested lawn hampers the growth of the Crabgrass just that much. With the weather hot and dry and the homeowner sprinkling his lawn lightly every day, Crabgrass will often overrun a good Bluegrass lawn within a week or two. Bluegrass is in a rest period during the extremely hot weather and can get along with little water. It may turn brown and look very unsightly but this condition is better than to have the resting Bluegrass crowded out by the Crabgrass which dies and turns brown with the first heavy frost.

A Bermudagrass lawn will make a very creditable showing during the hot weather if cut and watered properly. With a Bentgrass lawn, we can increase the acidity of the soil to a point where weeds can't grow. Not having weeds as a factor, we can water a Bent lawn to our heart's content as long as we do it when the ground is cool.

If a Bluegrass lawn is shaded more or less or the weather is cool during July and August, Crabgrass doesn't make enough growth to be noticeable. We have often seen the shadow of a tree or a building outlined on a lawn by the presence of a wonderful Bluegrass turf free from Crabgrass, whereas outside this shadow, in the sun, there was little or no Bluegrass and a great abundance of Crabgrass growing vigorously.

The Mystery of the Dahlia

Continued from page 617

as early as any of the horticultural varieties. From the nature of their native habitat, which is a cold high altiude, they grew readily in our northern latitudes.

It is a long flight of the imagination to attempt to conceive the links in the development necessary to produce a Cactus Dahlia such as F. W. Fellows from any one of the three wild forms which have been described. It is also difficult to connect the 'water-pipe flower' of Hernandez with these present-day wild forms. We are left to conjecture only and are forced to admit that even the 'plants and animals of New Spain' may after all have described the cultivated forms then growing in the gardens of the Aztecs. Thus the romance of the Dahlia's origin still remains an unsolved mystery.

The New Brushing Lacquers

NORTON STARR

THERE are some dozen or so questions that are outstandingly the things people want to know about this new type of finish which dries so quickly that surfaces finished with it can be used a few minutes after application. Here are the questions, in the order of their importance, with brief answers.

1) Can I apply brushing lacquer over an old finish, or will it be necessary to remove the old finish?

Brushing lacquer can be applied over an old finish in all cases where the surface is in suitable condition for refinishing. In fact, a thoroughly dried previous paint or varnish is ordinarily the very best surface over which to use lacquer.

2) Are flat undercoats necessary under the lacquer, as with the use of enamel?

No! It is unnecessary to build up a foundation for lacquer with flat undercoats, as lacquer is a more solid covering than enamel. There is no objection, however, to the use of one coat of flat undercoater (sandpapered smooth when dry) with light, delicate colors, where the previous finish is very dark in color, providing the undercoat is allowed to dry thoroughly (at least 48 hours) before applying the lacquer.

3) Can brushing lacquer be applied without sandpapering?

Sandpapering is unnecessary with lacquer, in fact is undesirable between coats unless properly done. Sandpaper should never be used *dry*, as it will scar the lacquer film, unless the very finest is used (No. 0000, which is not carried by many dealers). Slightly coarser sandpaper may be used *wet*, if desired, but in any event sandpapering should be very lightly done. Surfaces may be sandpapered lightly, however, before applying the first coat of lacquer.

4) Is a special brush necessary for its application?

The brush is important. Use only those of the soft bristle type. Stiff bristles have a tendency to dig into and raise undercoats, as well as making it difficult to flow on a smooth, even coat that will level out free from brush marks. Fitch or bear hair brushes are especially adapted for applying lacquer. Camel hair brushes, which are very soft, are excellent, in the small sizes for doing small, irregular surfaces.

5) Can it be applied over an old finish that has chipped off in places or that has cracked?

Care must be exercised in the use of lacquer over previously finished surfaces that are broken through or chipped off in places. Sometimes there is trouble and sometimes not, depending to a large extent upon the person being skilled in the application of lacquer or else happening to handle it just right. Trouble from this source is due to the high powered solvents used in lacquers getting under the broken paint film, disintegrating and lifting it. The safest way is to sandpaper down the edges to remove any loosened scales, then coat the spot with shellac, before applying the lacquer.

6) Can it be used over a previous stained finish?

Any stained finish (especially mahogany) has a tendency to bleed through newly applied coats of any painting material, and noticeably discolor the finish, particularly in the lighter shades, unless the stain is properly sealed in. In refinishing there is generally no way of telling whether the original finish was properly sealed in. Also, hard daily service over a period of time may wear off the protective sealing coats. The safest way is to apply a coat of shellac over the old coating. This will seal in the old coating so that the stain should not bleed through if the lacquer is properly applied with a soft brush.

7) Can a light color of lacquer be applied over a very dark colored previously finished surface?

Yes! Like all painting materials, however, more coats are required to produce a high class finish in the light, delicate shades, than with the darker and bright shades, especially over a dark foundation. However, three or four coats of lacquer of ivory or any of the light shades will cover solidly over a very dark foundation.

8) When applying lacquer on new wood, is any preparatory treatment of the surface necessary?

No; preparatory treatment other than sandpapering with the grain to extreme smoothness is not required. However, with very soft woods, a coat of shellac will keep the first coat of lacquer from sinking in, so that fewer coats will be required to get solid covering, and the finish will also have greater depth and beauty of gloss.

9) Can one color of lacquer be applied over another color of lacquer?

This is something that must be handled carefully. Where one color is applied over another color, the safe way is to apply a coat of shellac between coats of lacquer.

10) Is it desirable for use on floors?

Yes, lacquer is especially adapted for floors. Its hard, flint-like, nitrocellulose finish will stand hard wear well. Colors are generally available which are appropriate for soft wood floors, and the clear lacquer may be used with thorough satisfaction on hardwood floors or for any interior purpose for which clear varnishes are used.

11) What is used as a thinner—also as a brush cleaner and remover?

Regular lacquer thinners are supplied by all manufacturers especially for use with their brushing lacquer. Some makes of lacquer are too heavy bodied to work easily without thinning, while others do not require thinning unless allowed to stand in opened cans. In all cases, however, a small amount of thinner is almost indispensable to convenience and good results. It cleans brushes and removes spots from clothing.

12) Can it be used on metal beds?

Brushing lacquer can be successfully used on brass beds or metal beds of any kind. However, no air drying enamel will produce the high lustre, porcelain-like surface of the baked enamel finish. In applying brushing lacquer, be sure the surface is free from grease and dirt (wash thoroughly with soap and water and wipe over with a cloth saturated with gasoline, benzine or turpentine to cut any greasy deposits). Sandpaper before applying the first coat of lacquer, but not between coats.

13) Can a lacquer finish be rubbed?

No. Lacquer, while solid covering and very durable, has very little body and will not stand rubbing.

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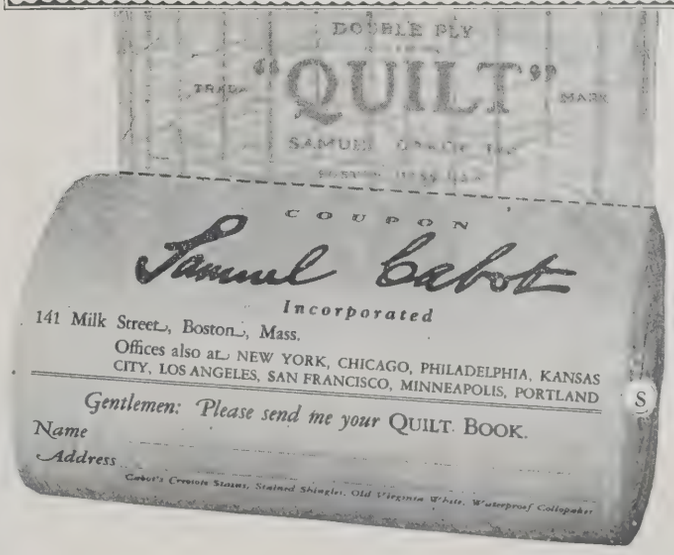

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What 'Culture' Really Means in Gardening

ALFRED C. HOTTES

WHEN we speak of culture for persons we mean adding refinements to mind and body. So with plants culture is that which we add to them over and above that which is supplied by nature.

We may plant perennials in ordinary soil, unprepared and unfertilized. In nature seeds are carried to such spots but often the flowers refuse to grow. We have all noted how thickly some of the wild flowers grow in certain favorable places, whereas several feet away only moss and grasses are found. In the woods plants grow where the conditions are adapted to them. It is our problem in a garden to make every tiny spot proper for the growth of the flowers. We know that the perennials must remain in one place for a period of years and for that reason we dig the soil deeply, we break up and enrich the subsoil, we drain if we deem it necessary. We realize that perennials which are encouraged to root deeply are more profuse in bloom and drought resistant.

ENVIRONMENT IS IMPORTANT

The gardener soon learns that a plant in one garden grows compactly and is an object of admiration, whereas in a neighboring plot it becomes too tall and is less profuse in flower. Gradually, he realizes that environment and culture contribute much to the plants.

We apply manure or nitrogen in one of its forms to plants in order that we may increase the growth and greenness of plants, or we withhold it when the vegetative growth is too luxuriant. We apply bonemeal and acid phosphate because we have known that these phosphate fertilizers make for maturity and hence result in greater hardiness. Such fertilizers also increase the amount and perfection of the flowers. Experience discovers that there are great differences between the two sorts of fertilizers. We may apply as much acid phosphate or bonemeal as we desire without injury because such of the fertilizing elements as are not used by the plants will stay in the soil unleached until the plants are ready to use them, serving as a future storehouse of food. On the other hand nitrogen may be applied too heavily: it causes burning and makes the plants produce a rank growth. Furthermore, nitrogenous fertilizers are soon leached from the soil, passing away in the soil water.

TEXTURE OF THE SOIL

Besides fertilizers, we know that the physical texture of the soil is very important. We know that manure, peat moss, and sand open up the heavy clays, and that they encourage the growth of beneficial bacteria which render other plant foods available. We attempt all the refinements we know about.

In nature our plants are constantly being mulched with leaves and other decaying vegetation which helps to retain the moisture. In a garden we may cultivate after each rain and make an artificial mulch of soil. When the surface soil is loosened there is less need for watering. Watering plants unless done thoroughly is a positive harm to them. The roots are encouraged to grow in the surface soil which dries out before more water is applied, resulting in injury to the young feeding roots. If you insist upon watering your garden daily do not bother to cultivate because you are defeating the purpose for which cultivation is intended.

CONSIDER THE STAKES

If our garden is to appear tidy, the plants must be supported. Do not allow the stakes to be prominent, paint them and use strong ones but of small diameter. Bamboo is useful. Place them at the centers of the plants and tie the branches rather individually to the stake. Perennials staked by bundling them together appear most unnatural, almost less attactive than when left to assume their natural habits.

Compare a garden in which the faded flowers and developing seeds are removed with one in which the plants are shabby because this point has been neglected. It is then that one fully realizes that such refinements are what the word 'culture' means to a garden.

FALL TRANSPLANTING

We are coming to transplant more often in the fall knowing that the season for doing the work is often longer. It gives us more leisure for planning and planting—more time to think of combinations which will please us. Except for the extremely late flowering and the less hardy perennials, most sorts may be moved in September. Among the sorts which are not wisely moved in the fall are: Chrysanthemums, Plumbago, Monarda, Japanese Anemone, Artemisia Silver King, Helenium, and some wild Asters. The tenderer biennials, Foxgloves and Canterbury-bells, do not become established sufficiently and die out. Heucheras and Armerias are generally weakened by transplanting but when this is done in spring, they are ready to grow, the roots become active and no injury results.

A cultured garden is one in which the soil is dug deeply, food is supplemented, water is conserved, the plants are primly upright and are kept constantly in bloom by removing the old flowers to retain the strength of the plants and to prevent unsightliness. 'Such gardens are not made,' as Kipling remarks, 'by singing: "Oh, how beautiful!" and sitting in the shade.'

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If At First You Don't Succeed

SHERMAN R. DUFFY

BEGUILED by beautiful photographs—mostly taken in England, many gardeners have tried in vain to grow Lupines. We read that they are lime haters, that all they need is poor soil, and that they will grow anywhere. The garden Lupine, Lupinus polyphyllus and its hybrids, is not a lime hater. It doesn't seem to mind whether the soil is acid or alkaline. Some of the few successful Lupine growers of this country recommend gypsum (like lime, a calcium compound, although it does not affect soil acidity) as a fertilizer

LUPINES AND LIME

The native Lupine which gives such gorgeous sheets of color in the dune country is a lime hater. It is Lupinus perennis and a horse of another color from the garden Lupine. The plain truth of the matter is that Lupines are not for American gardens except in a few fortunate sections. Lupines are extremely sensitive to drought and hot weather. Over vast stretches of the country, particularly in the central and central western states, we are reasonably certain to have hot, dry periods in midsummer, often of long duration. In some few-favored localities on the cool shores of the Great Lakes and in the northern tier of states they sometimes give good bloom for a season or two but are short-lived at best. They must have a cool, moist, and reasonably rich soil. It is utterly useless to try to grow them in light, warm soils.

We are told by successful growers that if we can grow them to maturity from seed they will acclimate themselves. I have never succeeded in doing so. They germinate, make a few leaves, stand still, and finally die in my light soil; heavier soils show a little better success but not much. Hot weather gets them.

LARKSPURS IN THE WEST

The Hybrid Delphiniums from Lemoine of France are gaining much popularity in the Middle West because of the vigor of their growth and the fine stems they give their first year. They may be grown as annuals. The white and tinted types are unusually fine. White eyes seem to prevail which, to my way of thinking, are rather a fault in the darker tones.

PRAIRIE ROCK GARDENS

Boulder-strewn stretches of prairie land, still unreclaimed, offer a suggestion for the appropriate style of rock gardening for the flat prairie country. This idea has been exemplified to some extent at the University of Illinois where boulders have been used to fine advantage on flat prairie terrain. But the idea that there must be miniature hills and dales, crags and cliffs, and water in a rock garden will persist. It need not be so in a prairie boulder rock garden. Neither need a boulder rock garden be devoted to mountain plants. We may take a leaf from nature's book of the rosettes of Mullein at the bases of the boulders, the purple heads of Bull Thistles that flourish in such country and the Prickly-pears that spread over the hot rocks. The flora of the natural, prairie rock garden is much bolder and on a grander scale than that of the mountain rock garden.

THE BLUE OF VERONICA

The Veronicas which are reminiscent of the purple Vervains that prevail in natural prairie boulder gardens give us fine summer blues. The light blue of V. spicata and its variety True Blue which is especially fine for cutting and Royal Blue, a dwarfer type adding brilliancy to rock gardens but not needing rock garden treatment, and the rich deep blue of the finest member of the genus, Veronica longifolia subsessilis, are all exceptionally fine garden material. They are not by any means drought resistant and a heavy mulch of lawn clippings or other material as dry weather appears is an excellent means of catering to their needs. As the main spikes fade the beauty of this plant may be prolonged by snipping off the faded bloom and from the axils of the leaves a fresh crop of smaller spikes will develop, giving fine color effect and an excellent decorative effect, quite different from the terminal spikes which are characteristic of the plant. The handsome Japanese Speedwell, V. longifolia subsessilis, is very susceptible to high living. The higher its living, the higher its stems, and the longer and fuller its rich blue spikes. Few gardeners realize what an imposing plant it can be when given the best culture. The airy spikes of our native white Veronica (V. virginica), characterized by its whorled leaves, is an excellent companion but growing to a height of three or four feet.

A HARDY WALLFLOWER

The Siberian Wallflower (Cheiranthus allioni) is a gorgeous, glowing bit of rich yellow and the only hardy Wallflower we have for the garden. It is best treated as a biennial sown in midsummer. It is likely to give trouble to those not acquainted with its tricks. It seems to rejoice in any position except where you put it. The reason is that it does not stand transplanting well. It sends out a tap root very early in its existence and if this is broken in transplanting, as it is almost certain to be, the plant stops and sulks for a season or even longer. It should be sown where it is wanted and thinned. It is most vigorous in lime soil. If the soil is acid give it lime, although it will grow in acid soil but never as vigorously.

BETTER ICELAND POPPIES

There have been unusually fine developments in the Iceland Poppies but a brand new acquaintance last season is the gem of the race. This is the Coonara Pink, a strain from New Zealand, a beautiful Poppy that hasn't proved to be pink to any great extent. The first blooming showed one really pink, a beautifully crimped glistening pink, but the majority were a bewildering array of saffrons, tangerines, oranges, salmons, apricots, and yellows of various depths. It is of shorter growth than the Sunbeams and some other strains but by far the finest in range of color and quality of bloom. It is said to be the result of a cross between a pink Shirley Poppy and an Iceland Poppy but it shows none of (*continued on page 676*)

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If At First You Don't Succeed

Continued from page 675

Shirley ancestry except in the few pink blooms. If the original seedlings were pink, it is evident that the strain has not been fixed but there can be no complaint for the variety and coloring are exceptionally fine.

Another Poppy, the species from Thibet, a shorter grower with more finely divided leaves than the older Icelands, is also a fine type, giving the richest oranges of the race. It is the most prolific bloomer I have found among the Icelands, blooming itself to death in short order if seed pods are not clipped rigorously. Reasonably dry winter quarters are the chief cultural demand of these Poppies.

REGAL LILY AND FROST

Another spring has demonstrated that care must be taken to protect the shoots of Lilium regale from any occasional frosts. The tops are not frostproof and I had a number destroyed, cut to the ground when two inches high. Lilium willmottiae near by was not affected. There is no question about the hardiness of the regale bulb but the tip is tender. The same applies to the Tritomas or Kniphofias which should not be put out too soon. The tops of a number of Torch-lilies were nipped but they came back. The Lilies did not. They were done for the season. Everyone should have these Lilies. They are raised from seed as easily as Onions, so they made be had in quantity.

DAFFODILS FROM SEED

Raising Daffodils from seed, long a favorite garden pastime in England is increasing slowly in the United States and is a fascinating pursuit. The drawbacks are that it requires from five to seven years to get blooming bulbs from seed, and the difficulty in getting seed in the first place. It is evident to me after many trials that soil conditions govern the seed-bearing ability of this bulb for some reason or another and that inducing it to seed in sandy or gravelly soils is difficult. In fact, I can rarely get a pod in my sandy soil despite many pollinations over a number of years. In heavy soils, particularly of a clay nature, they seed, for the most part, very freely without intervention of human hands.

Some varieties do not seed freely under any circumstances but to get a supply of seed with any degree of certainty, I have found that I had to make crosses in other gardens than my own. Those who wish to experiment with Daffodil seedlings can get seed of modern varieties from the English firm of Barr & Sons, the only firm I know that offers such seed. A planting each year will give a start and continuous bloom of new varieties once the five year period has been passed.

PEAT MOSS AND ANTS

Peat moss which has seemed a valuable garden property both for mulching and fertilizing is under suspicion in several sections from a rather unusual circumstance. Its use was followed by a scourge of ants. This was particularly true in rock gardens and it is taboo with some gardeners. It is charged by some that peat moss brings the ants or their eggs with it. Whether this is true or not I don't know, but I am inclined to doubt it. It would be interesting to know whether peat moss has a particularly strong attraction for ants, whether the ants are in it, or whether the presence of the ants was merely a coincidence. It had seemed to me to be a valuable addition to the garden although my experience is limited to observing its use in other gardens. There are enough ants in my garden without giving them any encouragement.

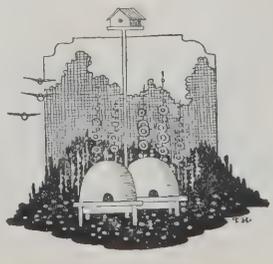
THE BEAUTIES OF SCABIOSA

The ugliest name ever applied to a beautiful plant, it seems to me, is 'Scabiosa'—it is so suggestive of the unprintable language of a union man speaking of a strike breaker! The old name of Blue Bonnets for the perennial type or Mourning Bride for the annual forms is much more appropriate. The perennial Scabiosa caucasica is one of the handsomest of garden perennials and, because of its long, wiry stems, ideal cutting material.

It is the only plant of midsummer to give the beautiful blue lavenders of the Irises. It has been the subject of recent work among plant breeders and there are some exceptionally fine strains, particularly the House strain, originated by the firm of Isaac House, Bristol, Eng. The colors range from pure white to rich violet blues. The species, S. caucasica, in its pale blue form, is still well worth growing.

It is a plant with which many gardeners have little luck. It has distinct likes and dislikes, chief of the former being lime and of the latter heavy soil. It is a distinct and decided lime lover and needs plenty of lime to flourish. It delights in a light, well-drained soil and does not do so well in heavy soil where it is apt to be short-lived. The percentage of germination I have found to be very low, about 20 per cent, in imported seed and none at all in seed I saved myself.

In the use of lime it seems to me best to follow orthodox agricultural methods, that is to say apply the lime first and then in about three weeks give fertilizer. Don't give the two together as their interaction is destructive. By this method I have found these beautiful new Scabiosas thrifty growers and they are now in their third year.



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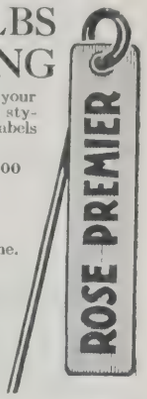

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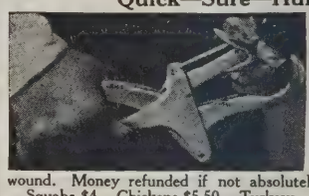

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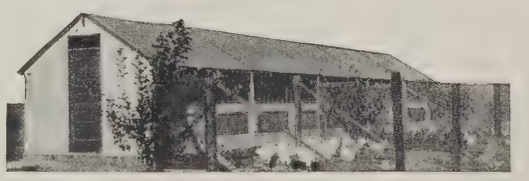

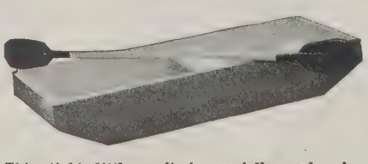

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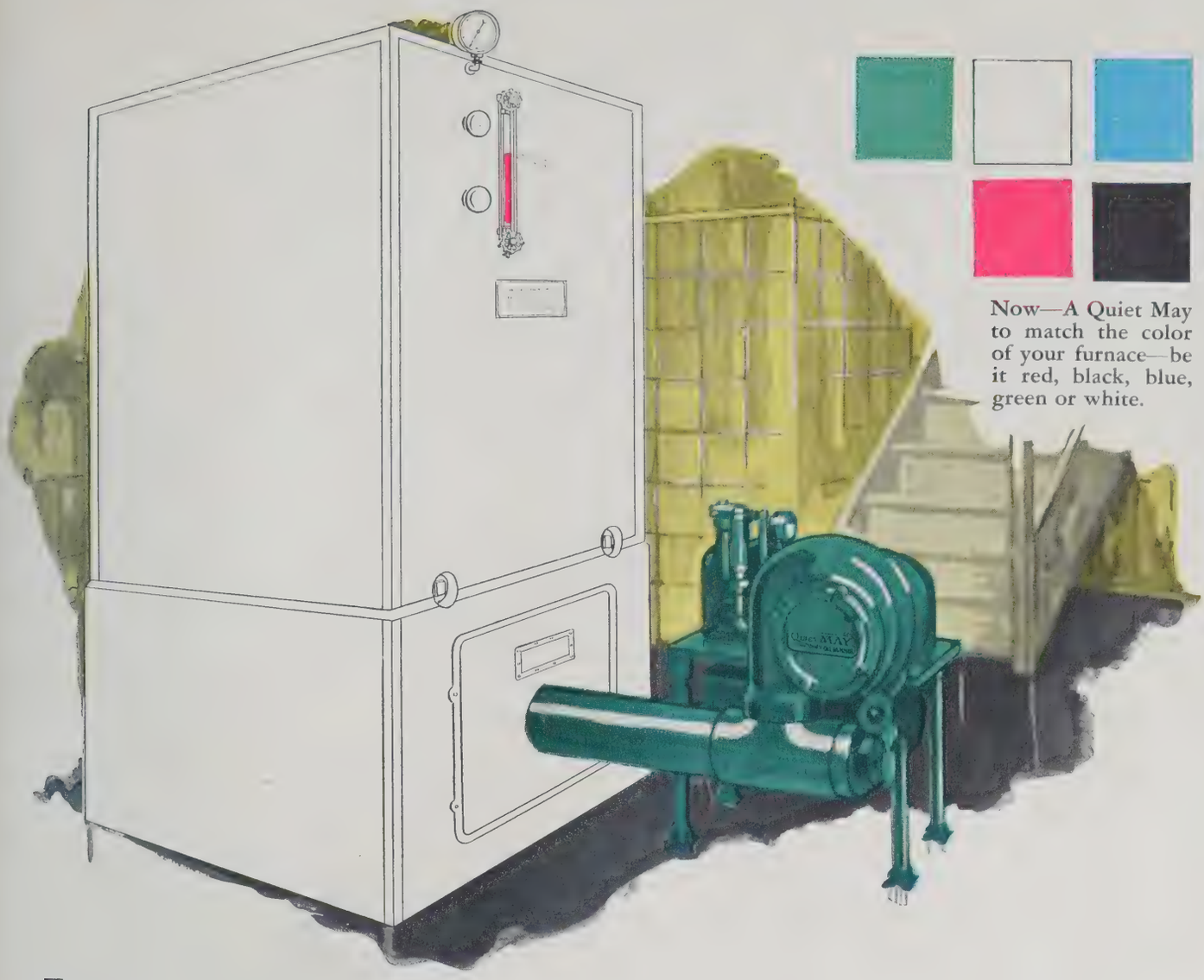

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